DOOR PHONE - VIDEO DOOR PHONE SYSTEMS: Installation Diagrams

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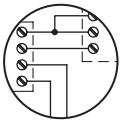

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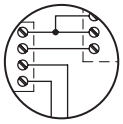

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INSTALLATION DIAGRAMS

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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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INSTRUCTIONS FOR INSTALLER

The products described in this technical manual must be used as expressly intended only, i.e. to build door phone and video door phone systems.
Any other use must be considered inappropriate and, them, dangerous. The constructor can not be considered liable for casual damages due to inappropriate, wrong and irrational use.

- The system must be built in compliance with the regulations in force.
- Check that the device is intact after removing it from the packaging. (do not proceed with installation in the event of faults);
- Keep the packaging (plastic bags, polystyrene, etc.) away from children. Packaging is potentially dangerous.
- Before connecting the set install an appropriate separation and protection switch.
- Before connecting the set verify that the data label correspond to the mains ones.
- Ensure that the conditions and data shown in the instruction booklets are respected for the entire life of the device;
- Do not obstruct the openings or fessures for ventilation or heat elimination.
- Before any cleaning or maintenance operation, disconnect the set by means of the system switch.
- In case of failure and/or malfunctioning of the set disconnect it by means of the general switch and do not damage it. (To repair the set contact Urmet after sales services)
- Do not open or tamper with the monitors: HIGH VOLTAGE live parts inside.
- Avoiding knocking or dropping the device to avoid breaking the kinescope with consequent projection of glass fragments.

If the above mentioned prescriptions are not followed, the set safety can be compromised.
The installer must verify that the notices for user are present on the slave sets.

CONDUCTOR CROSS-SECTION

- Connection of traditional call door phone, 4+n wire electronic call door phone or coax video door phone systems:

  Conductor cross-section depends on the length of the connections and must be able to guarantee a total resistance of less than 5 Ohm on each.

Distance [m]	Cross-section [mm²]
Call and speech circuit	
50	0,5
100	0,5
200	0,8
300	1,0
Door release circuit	
50	0,5
100	0,8
200	1,0
300	1,6
Video circuit (°)	
50	0,8
100	1,0
200	1,6
300	2,5

(°) Data in the table refers to the camera and monitor power wires; a 75Ω coax wire (e.g. RG59 U75Ω) is required for the video signal.

In the table, the maximum distance is to be interpreted as between the call station and the furthest door phone or video door phone.
For longer distances:
A) Suitably increase circuit wire cross-section area for voice and call circuit.
B) Use of a back-up relay for operating door lock circuit is recommended.
C) Installation of a video distributor Ref. 1794/4A is needed for the coax wire.

In intercom systems it is advisable never to exceed 200 meters.

- Connection of 1+1 wire electronic door phone or 5-wire video door phone systems.

The system works correctly with a maximum total (forwards and backwards) line resistance of 12Ω.

Use the following wire cross-section areas according to distance:

Distance [m]	Cross-section [mm²]
Call and speech circuit (terminals 1, 2, CA)	
50	0,35
100	0,75
200	1,0
Video door phone power negative (terminal R1)	
50	0,75
100	1,5
200	2,5
Video door phone power positive (terminal R2)	
50	0,5
100	1,0
200	2,0
Video signal (terminals A, B)	
50	0,35
100	0,35
200	0,35 double

Maximum length is between door unit (panel) and the most distant apartment station (door phone or video door phone).
Up to two house phones can be connected in parallel.

Note: *in all sistem foresee the wires for push button panel lamps lighting with an adequate power transformer (for up to 2 lamps the system transformer can be used), as well as the wires for the electric lock opener next to the door.*

WIRE LAYING

The wire laying of systems with different voltages is possible not only in separated conduits but also in the same conduit. In this case all the wires have an insulation suitable to the highest rated voltage. Wires of systems incompatible each others as power and telephones TV antenna, data transmission, must have different conduits and boxes.
By using external conduits it is possible to fail to observe this rule, on the condition that the incompatible systems are separated by means of a diaphragm. The internal diameter of the conduits has to be at least 1.3 times the diameter of the circle circumscribed to the wire group that the conduits have to include, with a minimum of 10 mm.
Never use telephone cables; false calls may occur in installations with long lines due to problems of cross-talk.

INSTRUCTION FOR GROUNDING OR NOT OF THE ELECTRONIC LOCKS AND PUSH BUTTON PANELS

According the IEC 64-8/4 Rule Point 411-1.2.4, the electronic device for which measures have been adopted to guarantee that in case of internal failure, the output terminal voltage cannot exceed the indicated values (50 Vac and, 120 Vdc not inverted) are source SELV type (ex BTS).
It is the case of the Urmet door phone power supplies for bar mounting that have a double insulation and that is belonging to class II (identified by the double square symbol) and that are conforming to IEC 12/13 Rules.
The active parts of the powered circuits (electric locks and push button panels) absolutely have not to be grounded (point 411.1.4.1). Only for information, the power supplies that do not belong to class II but to class I and, therefore, have not a double or intensified insulation, belong to FELV class (ex BTF). In this case both the power supplies and the active parts of the fed circuits have to be grounded.

DOOR OPENER SERVICE

Most apartment stations are equipped with door opener button to operate one or more electrical locks.
It is not recommended to act on two different locks with the same button, since the excessive power absorbed by the door opener service might damage the power supply. In this case it is advisable to use house phones equipped with an additional button to open the second lock, or else to use relay switches for servocontrol of the second lock.

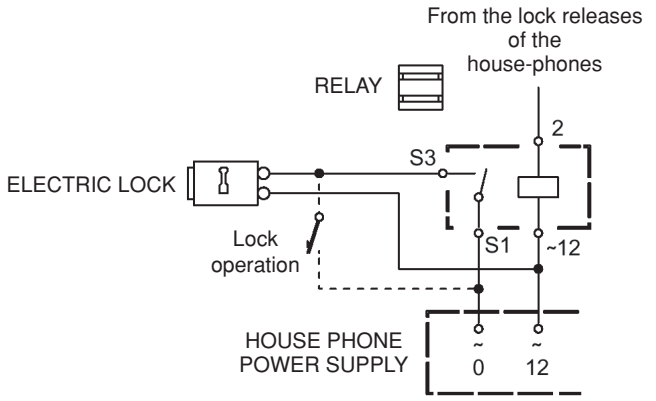
TV CAMERA UNIT

To obtain the best reproduction never direct the TV camera towards strong light sources (i.e. sun, lamps, flashes, flames or reflections).
Normal lighting is supplied by the infrared LEDs included in the TV camera unit. In case it is necessary the additional lamp lighting up for the outdoor vision (in particular with separated TV camera solution) insert a proper relay 788/5 or 788/52 by connecting to the video power supply.
The contacts will close the circuit of the lamps fed with an external voltage.

OPERATING ANOMALIES

BACKGROUND NOISE IN OUTDOOR STATION SYSTEMS

If, during a conversation a background noise or a rather strong buzzing are heard, it is necessary to check the power supply and the absence of failures in the components
One of the causes for the irregular functioning of the system is the 12V a.c. voltage pick up (for push button panel lamps lighting) from the "-" terminal of the loudspeaking unit, rather than from the power supply output.
In fact, by this mistake, when lamps light up there is a voltage drop in the common wire between power supply and outdoor station that gives - on its turn - the above mentioned background noises during the conversation.
Another cause of buzzing depends by long lines systems. The wire 9, that closes on the terminal –12 through the electric lock coil, induce the alternated current in the column. To verify disconnect a wire from electric lock, if the buzzing disappears the cause is located. To eliminate it control the lock by means of a auxiliary relay connected as per following scheme:



RADIO FREQUENCY PICKING

Some times a radio broadcast program can be heard in the door phone handset; this happens when the outdoor station is next to the radio repeater station. By connecting, between terminals "+" and "2" of the loudspeaking unit a 100 nF capacitor, the inconvenience will be overcome.

NON-OPERATION OF THE CALL TO THE LOUDSPEAKER

Check the power supply generates the call sound, by inserting a 45 Ohms loudspeaker between terminals "PS" and "~0" of the power supply.
Replace the power unit in the event of a failure.

INSUFFICIENT RECEPTION IN OUTDOOR STATION SYSTEMS

The following cases may occur:
1) Insufficient reception at both outdoor and indoor stations.
   In this case it is necessary to verify that power supply voltage is not lower than 5,7V d.c. If feeding is normal, the insufficient reception is caused, in most cases, by a door phone that remains permanently inserted since, if the handset is unhooked, the hook contacts do not disconnect it from the system and therefore the house phones operate as if they were connected in parallel.
2) Insufficient reception at outdoor station only.
   If this occurs only when the outdoor station is in connection with a certain door phone, the defect can be easily eliminated by acting on the door phone. If, on the contrary, the reception is weak, independently from the door phone connected to the loudspeaking unit, the defect is to be found in the loudspeaking unit itself; therefore it will be necessary to first check that there have been no wire inversions in the connection to terminals "1" and "2" or inversions of "+" and "-" polarities.
3) Insufficient reception at indoor station only.
   Adjust the loudspeaking unit potentiometer by increasing the volume EXT.

WHISTLE OR LARSEN EFFECT

Should the system present a "whistle" due to Larsen effect, duly adjust the two volume potentiometers of the loudspeaking unit reducing the higher yield channel (INT or EXT). A better result is obtained by acting on the internal volume.

INTERCOMS

One of the most common connection mistakes in an intercom system causes the following defect: during test operations the handset gives a background noise and no conversation can take place.
This is due to a wrong connection on the power supply negative terminal.

The power supplies have two negative outputs: "-" and "-J". The latter has a series impedance. If, during the installation, a connection is made on the first output instead of on the second "-J", the system will not work since the impedance function is missing.

SYSTEM CHECK AND POSSIBLE FAILURES OUTDOOR STATION SYSTEM CONTROL

1) Check that voltage between (+) and (-) terminals is of 6V. If voltage is normal, there should not be:
   a) Any badly connected door phone.
   b) Any door phone with permanently unhooked handset.
   To make sure that all house phones are properly connected, it is necessary to measure if between "+" and "1A" and "2" terminals voltage is present.
   Under normal conditions, there should be no voltage. If, on the contrary, voltage is present, it means that in one or more house phones both the microphone and the receiver are permanently inserted.
2) Disconnect "+", "1A" and "2" terminals wires from the loudspeaking unit and measure with the ohmmeter between wires 1A and 2:
   - If the result is infinite the system is in order.
   - If there is a resistance of about 100 Ohms, some door phone is always connected.
   - If the result is 0 Ohms, wire 1A and 2 are in short circuit.
     To verify the efficiency of the loudspeaking unit, wires 1A and 2 coming from the installation, must be disconnected and a provisional connection must be made on a perfectly working door phone; if the conversation is audible, the fault will have to be found somewhere else. To locate faults it is necessary to proceed upwards on the cable conduit.

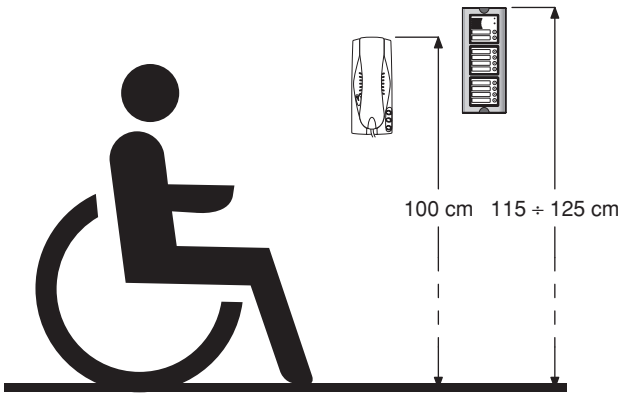
1- OR 2-USER BASIC VIDEO DOOR PHONE SYSTEM TROUBLESHOOTING AND SOLUTIONS

1) No conversation can be established with the door unit: the call tone is heard on the monitor but the monitor does not light up.
   Short-circuit between output terminals: the power unit protection has tripped; disconnect power (230 Vac) and carefully check the system wiring again.
2) No conversation can be established with the door unit: no call tone is heard on the monitor and the monitor does not light up. Check:
   - Connection between panel button and monitor CA terminal.
   - Connection between power unit terminal PS and panel button common.
   - No short-circuit on power unit "PS" terminal.
3) A conversation can be established with the door unit: the call tone is heard on the monitor but the monitor does not light up.
   Check:
   - Presence of voltage (18-20 Vdc) between monitor terminals "R2" (+) and "R1" (-).
4) A conversation can be established with the door unit: the call tone is heard on the monitor, the monitor does not light up but the screen is blank.
   Check:
   - Presence of voltage (16-18Vdc) between camera terminals "+TC" "R1".
   - Possible coax interruption or short-circuit.
5) No conversation can be established with the door unit: the call tone is heard on the video door phone and the camera picture appears.
   Check:
   - Presence of voltage (6Vdc) between door unit terminals "+6" and "-6".
6) The system works correctly but the door lock cannot be released.
   Check:
   - Continuity between video door phone "9" and video power unit "AP" terminals.

All diagrams in this volume can be downloaded from the web site at www.urmetdomus.com, technical diagram area.

REDUCING ARCHITECTURAL BARRIERS

In buildings intended for social activities, such as schools, hospitals, health care centres, cultural centres, etc., and in all other buildings where technical precautions are needed to ensure accessibility by disabled persons, the door phone and video door phone systems must be installed so to be conveniently used by everyone.
Specifically, avoid installing apartment stations in difficult to reach points. Install so that the distance between the floor and the upper part of the microphone is 100cm.
The panel outside the building must be installed as close as possible to the height of a wheelchair user's face: the recommended height is from 115 to 125cm from the floor.



SYSTEM TYPOLOGIES

DOOR PHONE SYSTEMS

Door phone systems functions include conversation, calling and door opening in a normal electrical system.
The following devices are needed to make a basic door phone system:

- Panel with buttons and door unit.
- Apartment station door phones.
- Door phone system power unit.

Door phone systems are split into two families according to the number of wires needed to make the system.

VIDEO DOOR PHONE SYSTEMS

Urmet Domus video door phone systems ensure a high level of user safety; visitors can be recognised at the door (of a detached house, a semi-detached house or a block of flats) thanks to the picture which appears on the monitor located inside.
The following devices are needed to make a basic video door phone system:

- Panel with buttons, door unit and camera.
- Apartment station video door phones.
- Video door phone system power unit.

Either black and white or colour video door phone systems are available using specific monitors and camera.
Video door phone installation is simple and quick thanks to the use of specific brackets with terminal boards onto which the monitor is fastened.
Two system types are available: coax and 5 wires.

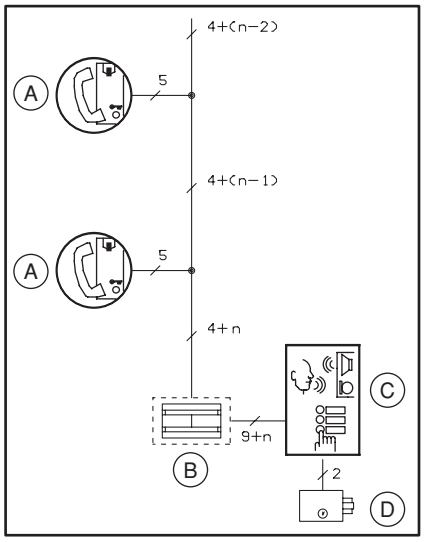
CHOOSING THE RIGHT SYSTEM

DOOR PHONE SYSTEMS

"4+n" wire systems

This type of system employs 4 wires (2 for voice in and out, 1 for door phone power ground and 1 for operating the electrical lock) plus one call wire.
The system may implement either traditional or electronic call tone options.

Door phones with different designs and colour are available for 4+n wire electronic call systems.
The call tone is sent directly to the speaker used for normal communication with the door unit. The tone is a modulated two-tone note (1200 and 750Hz) in this case.
Door phones with special functions can be used (privacy indicator and door monitoring LED, voice circuit on button, additional buttons directly on the door phone top). Various accessories are also available (three-tone gong, call volume adjustment kit, etc.).
Various doors phones can be connected one to the each other in addition to the door unit for making intercom systems.



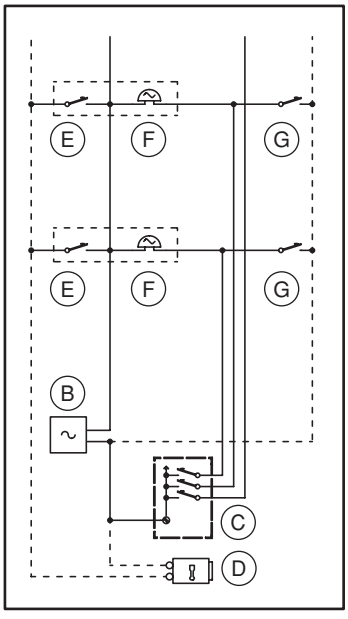
KEY
A: Door phone
B: Power unit
C: Panel
D: Electrical lock

Traditional call systems are suitable for making new systems with call signal to a dedicated buzzer fitted inside the door phone.
This type of door phone is suitable for replacing 1030, 930 and 730 model door phone in existing systems and for making intercom systems.

"1+1" wire systems

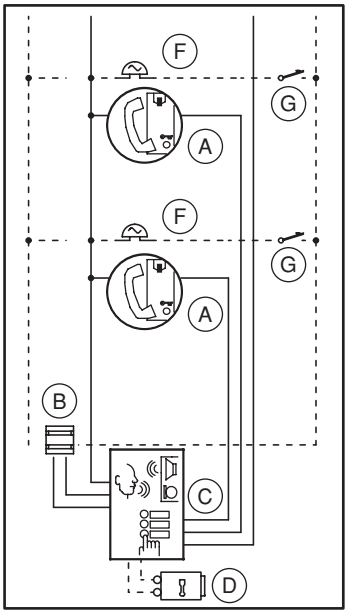
"1+1" wires systems are available with electronic call option only. These systems are characterised by simple wiring with only 2 wires for each user.
They are suitable for making new installations and are most appreciated for use in old buildings to replace an existing call only system (button and bell). The existing service can be transformed into a door phone system without adding wires to the column or in the apartments.
In this systems, only the called door phone can pick up the conversation with the visitor (no other users can cut into the call in progress) and open the electrical door lock.

Existing call only system



KEY
B: 12V transformer
C: Panel
D: Electrical lock
E: Lock release button
F: Apartment ringer
G: Floor call button

"1+1" wire door phone system

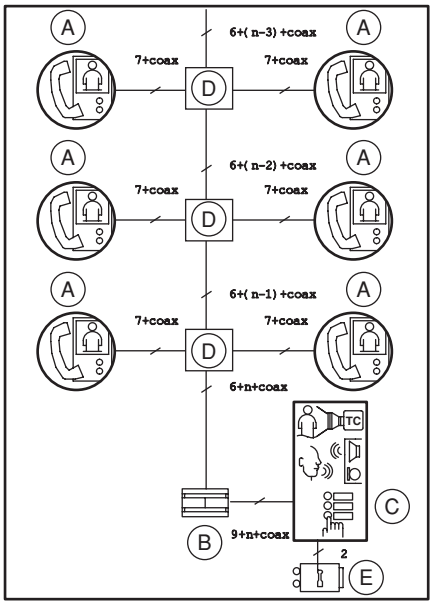


KEY
A: Door phone
B: 12V transformer
C: Panel
D: Electrical lock
F: Apartment ringer
G: Floor call button

VIDEO DOOR PHONE SYSTEMS

Coax systems

The construction of a coax video door phone system is similar to that of an electronic call "4+n" door phone system with the addition of video functions. The wires are the same as those shown for the door phone system with the addition of those needed to power the camera and the monitor, in addition to the coax cable for the video signal.
This system offers countless possible configurations for both black and white and colour installations; it is particularly indicated when there is a long distance between the camera and the monitors.
Apartment stations in coax systems can be connected one to another to make intercom systems.
Apartment stations in coax systems can be complemented with a wide range of accessories (three-tone gong, Scaitel picture memory module, supplementary buzzer, etc.).
Simple "4+n" door phones can be connected to the coax video door phone system for offering voice service only.

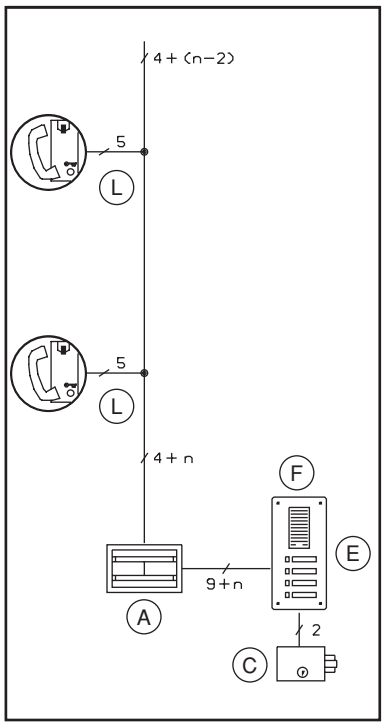


KEY
A: Apartment station
B: Power unit
C: Video door unit
D: Video distribution
E: Electrical lock

"5 wire" systems

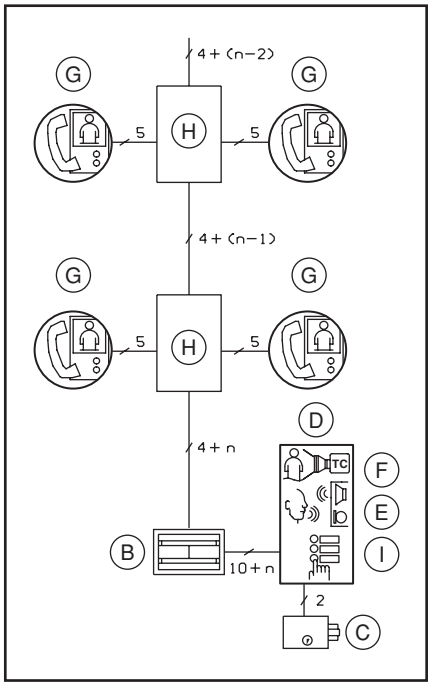
These systems are particularly suitable for new installations and for transforming existing door phone systems into video door phone systems without addition other wires in the column and the apartments.
Urmet Domus 5 wire video door phone systems (without coax) can be used to make video door phone systems with only 4 wires for powering the monitor and the video signal plus 1 wire for the call signal.
The picture only appears on the called monitor. Conversation is private. Users must have been called to connect to the door unit.
Simple "1+1" door phones can be connected to the 5 wire video door phone system for offering voice service only.

Existing door phone system



KEY
A: Door phone system power unit
B: Video power unit
C: Electrical lock
D: Camera unit
E: Door unit
F: Panel
G: Apartment station
H: Video door phone distribution box
I: Conversation privacy board
L: Door phone

5 wire video door phone system



C1.002 - MINIMUM WIRE CROSS-SECTION AREAS

Distance m	50	100	200
Cross-section area sq.mm	0,35	0,75	1

Provide two wires for switching on the push-button panel light bulbs. Use a power transformer suitable to the number of light bulbs. The system transformer is sufficient for up to 2 bulbs (max 6 W).

C1.004 - K-Steel models only:
Remove the jumper
a)... and ...

C4.001 - MINIMUM WIRE CROSS-SECTION AREAS

Distance	m	50	100	200	300
Voice and call circuit	sq.mm	0,5	0,5	0,8	1
Door opening circuit	sq.mm	0,5	0,8	1	1,6

- The indicated distance is between door unit and most distant door phone.
- Lay the wires at a suitable distance from power lines (as far away as possible).

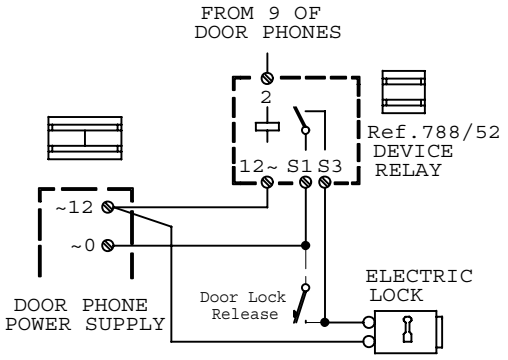
Use two wires for lighting the panel name tags if not included in the diagram.
Use a separate transformer of suitable power.
Transformer Ref.9000/230 is recommended for up to 15W-
The system power unit is sufficient for up to 6W.

C4.003

Door phone	Terminal equivalence:			
Ref.1132/1	T1	T2	T3	T4
Ref.1133/1	T1	T2	T3	X
Ref.1131/1	A	B	C	D

C4.004 - Use auxiliary relay Ref.788/21 or 788/52 for operating the lock in systems with long lines to avoid buzzing.

The connection variant is:



C4.006 - Sinthesi models only:
- Connected jumper ... to ...

C4.007 - Sinthesi models only:
See instruction booklet provided with product for connecting terminals G/T, ~0 and ~12 between modules.

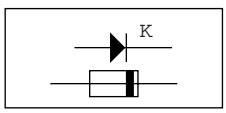
C4.008 - K-Steel models only:
all connections are made with terminal boards.

C4.009 - Important:
Use cord pairs.

C4.012 - MINIMUM WIRE CROSS-SECTION AREAS

Distance	m	120	200	300	480
Diameter	mm	0,5	0,65	0,8	1
Cross-section area	sq.mm	0,20	0,8	1	1,6

C4.014 - Check that the diode respects the polarisation shown in the diagram.



C4.015 - Repeater door phone call input connections.

Call repeater Ref.1332/84	Mod.1131 Mod.Scaitel Mod. Atlantico		Mod.1130	
	"4+n" wire systems	"1+1" wire systems	"4+n" wire systems	"1+1" wire systems
CA	CA	2	7	X
6	6	1	6	

C4.016 - Sinthesi models only:
The call forwarded LEDs on all panels light up when a call is in progress from any station.

C4.017 - Sinthesi models only:
The call forwarded LED of the secondary station in the column to which the call is directed lights up when a call from the main panel is in progress.

C4.018 - K-Steel model door units only: connect terminals ~0 and ~12 for name tag lighting.

C4.023 - Set the (TIME) trimmer on the device to minimum time.

CU.009 - Provide two wires for switching on the push-button panel light bulbs.
Use a power transformer suitable toe the number of light bulbs.
Use of transformer Ref. 9000/230 is recommended for up to five bulbs (max 15 W).

VD.002 - See the chapter "Demister power" in the chosen product manual for K-Steel camera modules only.

VD.007 = Floor call button.

V5.001 - Wire cross-section area

Maximum distance		m	50	100	200
Wires	R1	Sq.mm	0,75	1,5	2,5
	R2	Sq.mm	0,5	1,0	2,0
	CA	Sq.mm	0,35	0,50	0,75
	A,B	Sq.mm	0,35	0,35	0,35 Double wires

The diagrams indicate the distance between the camera and most distant video door phone unit.
Normal wires can be used for distances up to 100 metres. For higher distances (up to 200 metres) the wires A and B must be doubled.

V5.002 - Use two wires for lighting the panel name tags if not included in the diagram.
Use a separate transformer of suitable power.
Transformer Ref.9000/230 is recommended for up to 15W-
The system power unit is sufficient for up to 6W.

V5.004 - On the last distributor, insert two 82 Ohm resistors (provided) between terminals R1-A and R1-B.

V5.007 - MINIMUM WIRE CROSS-SECTION AREAS

From camera to video door phones

Function	Wires	m	50	100	200
Video power	R1	mmq	0,5	0,75	1,5
Video power	R2	mmq	0,5	0,75	1,5
Video signal	A	mmq	0,35	0,35	0,35 double wires
Video signal	B	mmq	0,35	0,35	0,35
Call	C1-C2	mmq	0,35	0,5	0,75
Auto power-on	AI	mmq	0,35	0,35	0,35

The diagrams indicate the distance between the camera and the video door phone unit.
Normal wires can be used for distances up to 100 metres. **For higher distances (up to 200 metres) the wires A and B must be doubled.**

From power unit to camera

Function	Wires	m	50	100	-
Power 12V~	~12	mmq	0,75	1,50	-
Power 12V~	~0	mmq	0,75	1,50	-
Power 18V=	+18	mmq	1,50	2,50	-
Power 18V=	R1	mmq	1,50	2,50	-

V5.011 - Connect the wire for switch-on function. In this case, connect jumper between terminals X2 and R3.

VX.001 - To use video distributor output U5, remove the 75 Ohm resistor fitted on the printed circuit or remove jumper (if existing).

VX.002 - The power unit can power up to 10 distributors. Use one local power unit Ref. 789/2 for each group of distributors (max. 20) after exceeding this limit.

VX.003 - MINIMUM WIRE CROSS-SECTION AREAS

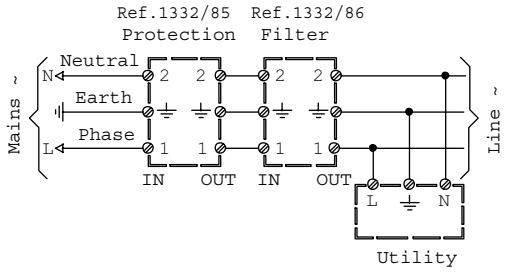
Distance	m	50	100	200	300
Normal Wires	Sq.mm	0,5	0,8	1	1,6
Wires R1,R2,+TC	Sq.mm	0,8	1	1,6	2,5
COAXIAL CABLE 75 Ohm	Use a normal coaxial wire for distances up to 300 m Add a video amplifier for longer distances.				

Provide two wires for switching on the push-button panel light bulbs. Use a separate transformer suitable to the number of light bulbs. (Transformer ref. 9000/230 is recommended for up to 5 bulbs). The system power unit is sufficient for up to 2 bulbs.

VX.006 - See the instruction book provided with the product for fitting the accessory in the device.

VX.007 - The cross-section area of the wires indicated with ▬ must be double.

VX.008 - Connect the devices to a filter and power line protection device.



VX.010 - No more than 20 monitors should be connected to each column; add video distributors to the camera output or other device if there are more devices.

VX.011 - Close the coaxial wire on the last monitor in the riser with a 75 Ohm resistance between terminals V4 and V5.

VX.012 - Relay Ref.788/5 or Ref.788/52 is needed to prevent that a video door phone can be switched on while another device is working and interrupt vision. Connect the PS wire directly to the monitor X1 terminals if the relay is not fitted.

VX.013 - Connect the switch-off circuit Ref. 5330/60 in the push-button panel and connect wire SN (brown) to the button common. Cut and isolate wire 1 (red).

VX.014 - Dusk switch or similar device for switching lights on, where relevant.

VX.015 - The power unit Ref.1090/850 can power up to 4 devices. Use another power unit for each group of 4 devices if the system exceed this capacity.

VX.016 - MINIME WIRE CROSS SECTION AREAS

Distance	m	300	400	700	1000
Voice and call wires	mmq	1,6	1,75	2,5	4
COAXIAL CABLE 75 Ohm	Use a normal coaxial wire for distances up to 300 m Add a video amplifier for longer distances.				

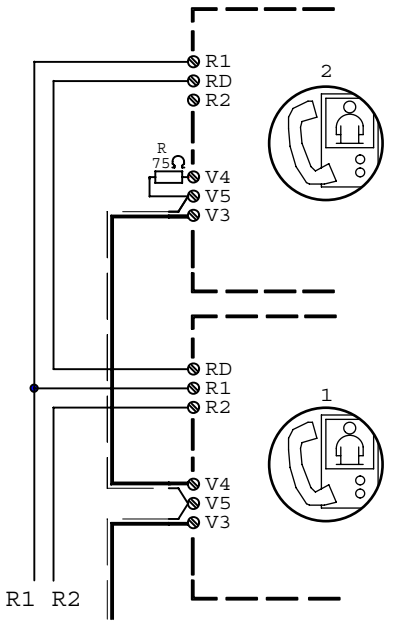
The video amplifier must be installed near the monitor.
Two BNC connectors are required for connecting the coax wire. Use a RG59 (75Ohm) coax for a maximum distance of 300m.
Use video amplifier Ref.1840/250 with RG11 wire for higher distances

VX.018 - Connect the following jumpers on the device:
a) ..... with .....
b) ..... with .....
c) ..... with .....

VX.021 - Cut or remove the jumpers on the device(s):
- ...-...
- ...-...
-...-...

VX.023 - Terminal equivalence:
- RT (Sentry+)= RD (Atlantico).

VX.025
EXAMPLE OF POWER CONNECTION WITH ATLANTICO VIDEO DOOR PHONES



VX.028 - For Ref. 5330/60 only: cut and isolate wire 1 (red)

VX.031 - On the device remove the jumper P1 which short circuit the diode 1N4700. In intercom system there is not necessary connect the diode.

VX.032 - MINIME WIRE CROSS SECTION AREAS
The section area and the voltage cable (12Vcc 12Vdc) lenght are in function of the camera intake.
See the following table:

Camera intake	Cross section area (mmq)	Distance (m)
max 300mA	0,75	50
	1,5	100
	2,5	150
	4	240

VX.033 - MINIME WIRE CROSS SECTION AREAS
The section area and the voltage cable (12Vcc 12Vdc) lenght are in function of the camera intake.
See the following table:

Camera intake	Cross section area (mmq)	Distance (m)
max 500mA	1	50
	2,5	125
	4	200

VX.034 - MINIME WIRE CROSS SECTION AREAS

Distance	m	50	100	200	300
Normal wires	mmq	0,5	0,5	0,8	1
Call and button common wires	mmq	0,5	0,8	1	1,6
Wires R1, R2, +TC	mmq	0,5	0,5	0,8	1
COAXIAL CABLE 75 Ohm	Use a normal coaxial wire for distances up to 300 m Add a video amplifier for longer distances.				

Use two wires for lighting the panel name tags if not included in the diagram.
Use a separate transformer of suitable power.
Transformer ref. 9000/230 is recommended for up to 15W-
The system power unit is sufficient for up to 6W.

VU.002 - Follow the instructions provided with the product for fitting the camera.

NOTE 1: *The electrical lock is shown in the diagrams and must have the following features:*
12Vac - 15VA

NOTE 2: *The number of devices shown by an X must be evaluated according to the system type to be made.*

BASIC DIAGRAMS FOR 4+N WIRE DOOR PHONE SYSTEMS

Download from:
www.urmetdomus.com
Technical Manuals area

4+n

SECTION 1A CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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BASIC DIAGRAMS FOR 4+N WIRE DOOR PHONE SYSTEMS

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CONNECTION OF SEVERAL DOOR PHONES TO 1 DOOR UNIT Door phone with or without insertion key	SC101-1133C	1a	**4**
CONNECTION OF 6 DOOR PHONES TO 1 DOOR UNIT Door phones A and B are called individually while door phones C-D-E-F are called in parallel	SC101-1273A	1a	**6**
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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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4+N DOOR PHONE SYSTEM DIAGRAM CROSS-REFERENCE TABLE

| LIST OF AVAILABLE FUNCTIONS | | |

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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

LIST OF AVAILABLE FUNCTIONS														
Number of main panels to be installed														
	Number of secondary panels to be installed													
		Single calls from panel: each user has its own call button												
			Calls from panel in parallel: each user has several door phones in the apartment											
				Intercom function: users can communicate with each other										
					Floor calls: users can be called from the outside of the apartment									
						Differentiated call: the source of the call can be identified								
							Timed electrical lock: the energising time of the lock can be controlled							
								Use of devices with low number of DIN modules						
									MUTE function: possibility of excluding the call tone					
										Door open control: open door indicated by means of LED				
											Conversation privacy: users can only talk and listen if called			
												Operation of two locks at the same time		
												DIAGRAM DESCRIPTION	**DIAGRAM**	**PAG**
2	**0**	√										CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS Use the relay box Ref. 788/51 and the power supply Ref. 786/11	SC101-1217C	10
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4	**0**	√										CONNECTION OF SEVERAL DOOR PHONES TO 4 OUTDOOR STATIONS	SC101-1209C	14
0	**0**			√								INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES	SC101-0249E	32
				√								INTERCOMMUNICATING CONNECTION OF 4 DOOR PHONES	SC101-1272A	34
				√								INTERCOMMUNICATING CONNECTION OF MAXIMUM 8/13 DOOR PHONES	SC101-0861D	36
				√								CONNECTION OF 1 MAIN DOOR PHONE TO 7/12 SHUNT DOOR PHONES MAXIMUM	SC101-0863E	38
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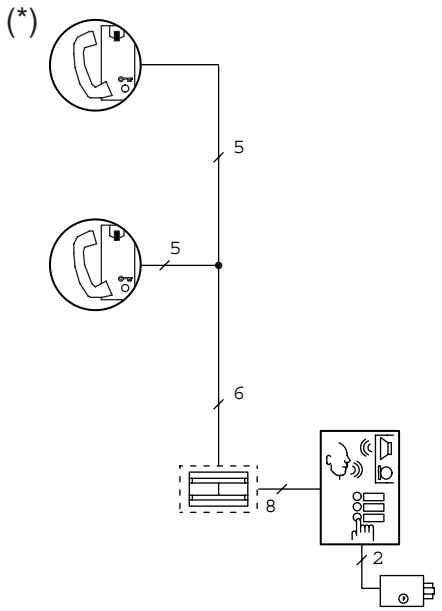
N	**1**		√	√								CONNECTION OF TWO INTERCOM DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM ONE SECONDARY DOOR UNIT EXTENSION OF AN ELECTRICAL DOOR UNIT SYSTEM Parallel calls from outdoor station. Differentiated calls	SC101-0735D	60

NOTE: *The diagrams shown in this table can be made using Sinthesi, K-Steel, 725 panel models.*

CONNECTION OF UP TO 2 DOOR PHONES TO 1 DOOR UNIT

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent door phone loudspeaker. When the called door phone handset is unhooked, contact is established and conversation may take place. To operate the electric lock it is sufficient to press the proper push button.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0858C:

"4+N" DOOR PHONE KIT DIAGRAMS

N. X One-family kit (1 button) **Ref. 1129/501**
consisting of:
- Smyle panel 1 button with built-in door unit.
- 1 Atlantico door phone (with door opener button and 1 additional button).
- Power transformer: Ref. 9000/230 (230Vac-18VA, 3 DIN modules).

or

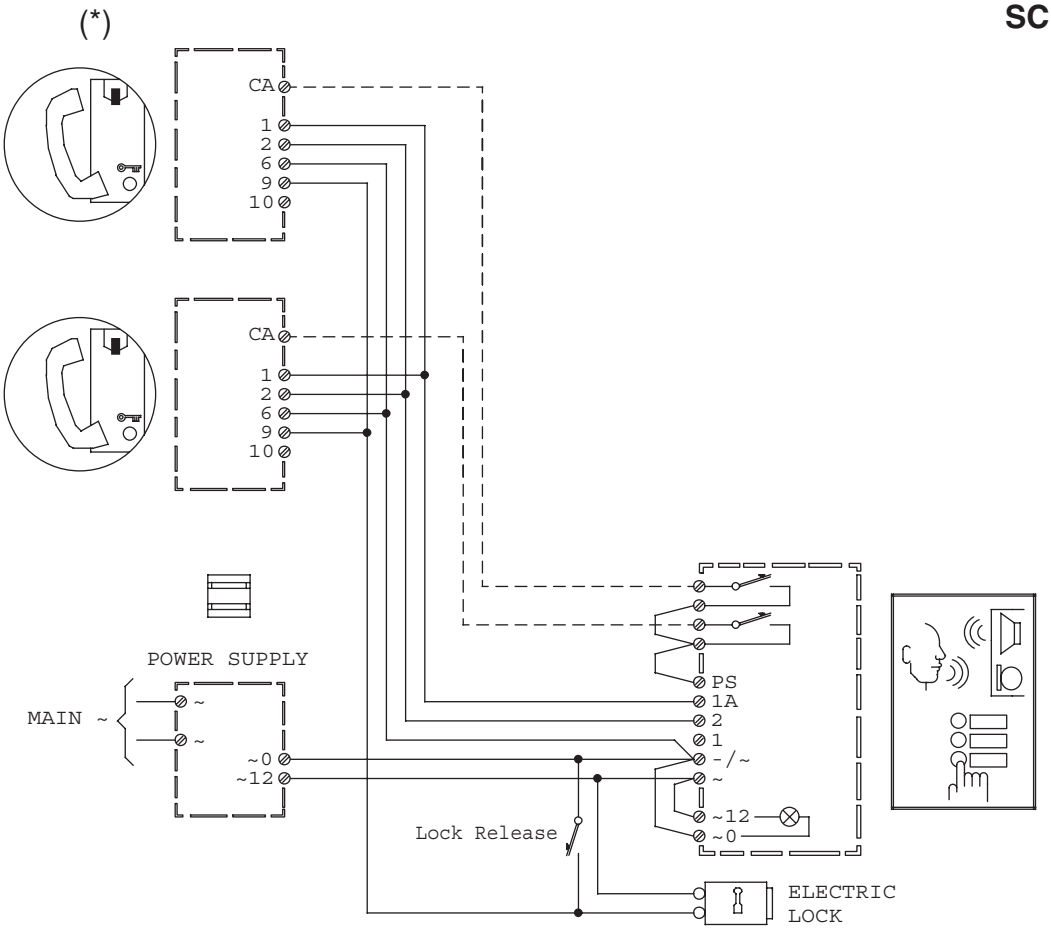
N. 1 Two-family kit (2 buttons) **Ref. 1129/502**
consisting of:
- Smyle panel 2 buttons with built-in door unit.
- 2 Atlantico door phones (with door opener button and 1 additional button).
- Power transformer: Ref. 9000/230 (230Vac-18VA, 3 DIN modules).

DIAGRAM NOTES

(see section 1)

C4.001
(*) door phone included in two-family kit only

SC101-0858C



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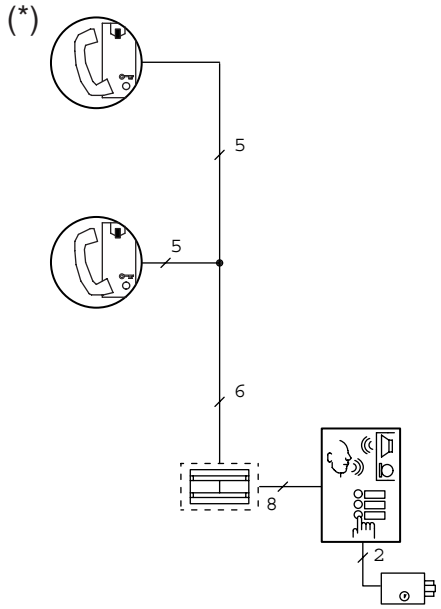
CONNECTION OF UP TO 2 DOOR PHONES TO 1 DOOR UNIT

4+n

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent door phone loudspeaker. When the called door phone handset is unhooked, contact is established and conversation may take place. To operate the electric lock it is sufficient to press the proper push button.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1259B:

"4+N" DOOR PHONE KIT DIAGRAMS

N. 1 One-family kit (1 button) **Ref. 1133/301**
consisting of:
- Sinthesi door unit module with 1 call button Ref. 1145/21
- Door unit Ref. 1145/500
- 1 Atlantico door phone Ref. 1133/1
- 1 flush mounting box for 1 module Ref 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-28VA, 3 DIN modules Ref. 786/11

or

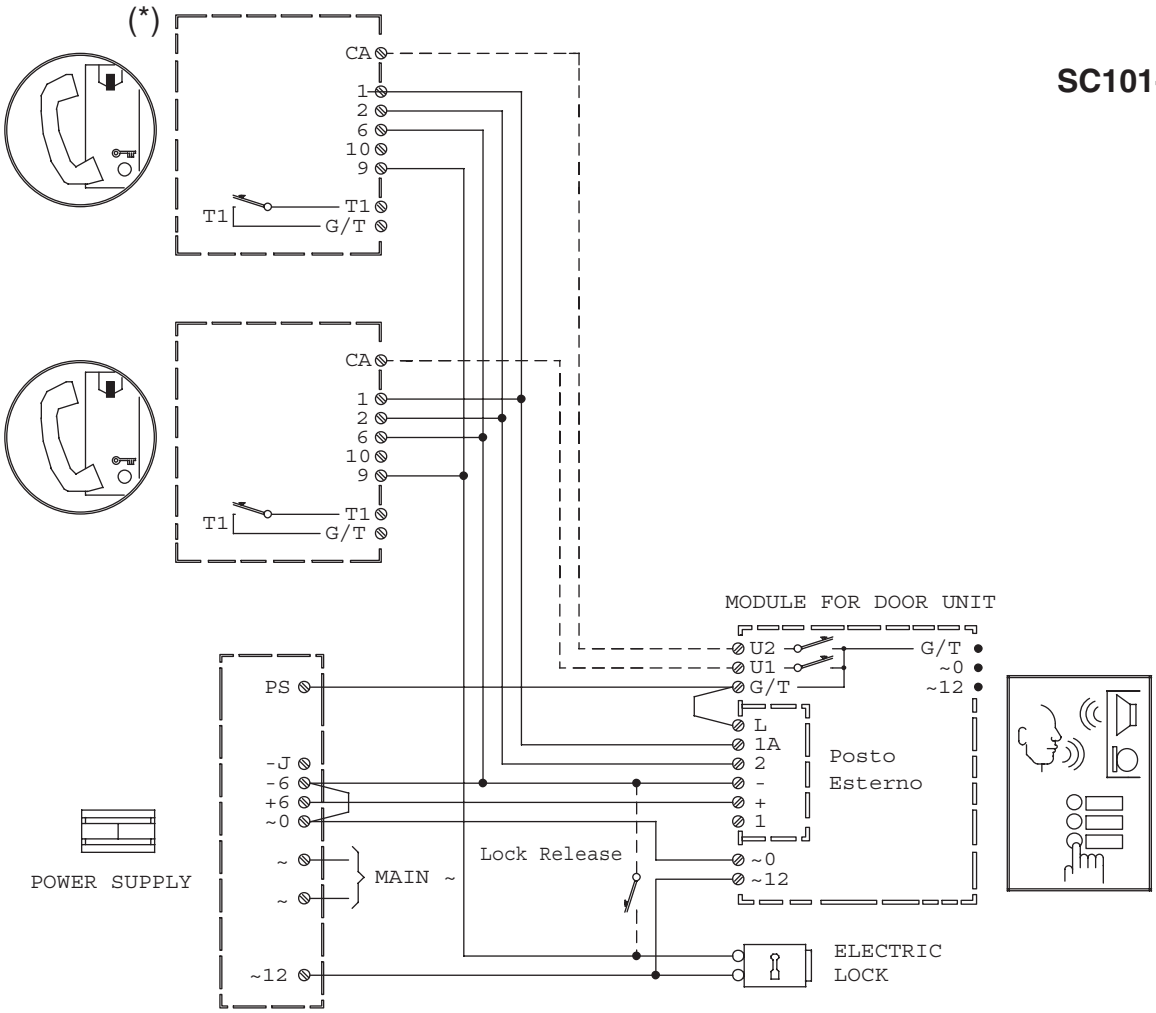
N. 1 Two-family kit (2 buttons) **Ref. 1133/302**
consisting of:
- Sinthesi door unit module with 2 call buttons Ref. 1145/22
- Door unit Ref. 1145/500
- 2 Atlantico door phones Ref. 1133/1
- 1 flush mounting box for 1 module Ref 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-28VA, 3 DIN modules Ref. 786/11

DIAGRAM NOTES

(see section 1)

C4.001
(*) door phone included in two-family kit only

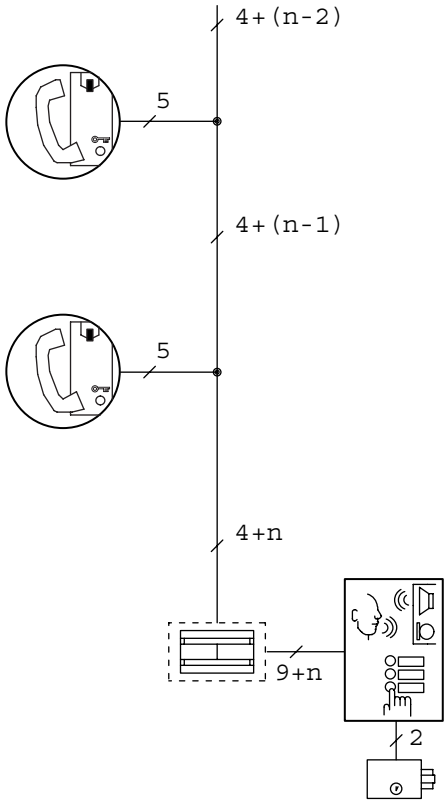
SC101-1259B



CONNECTION OF SEVERAL DOOR PHONES TO 1 DOOR UNIT
Door phone with or without insertion key

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent door phone loudspeaker. When the called door phone handset is unhooked, contact is established and conversation may take place. To operate the electric lock it is sufficient to press the proper push button.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1133C:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**
	or		
N. X	Door phone Mod. Atlantico wiht insertion key	White colour	**Ref. 1133/10**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

SC101-1133C

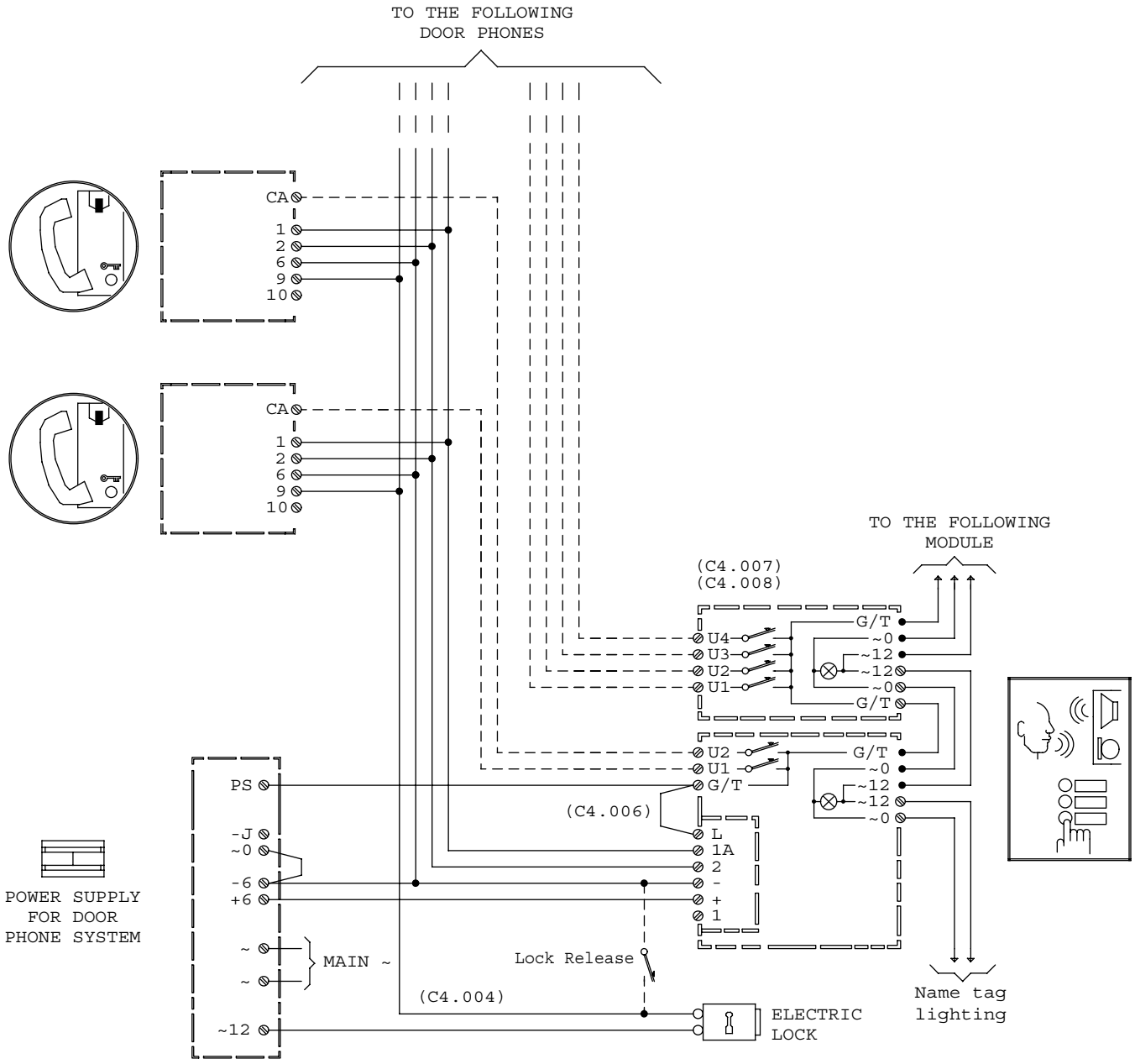


DIAGRAM NOTES

(see section 1)

C4.001
C4.004

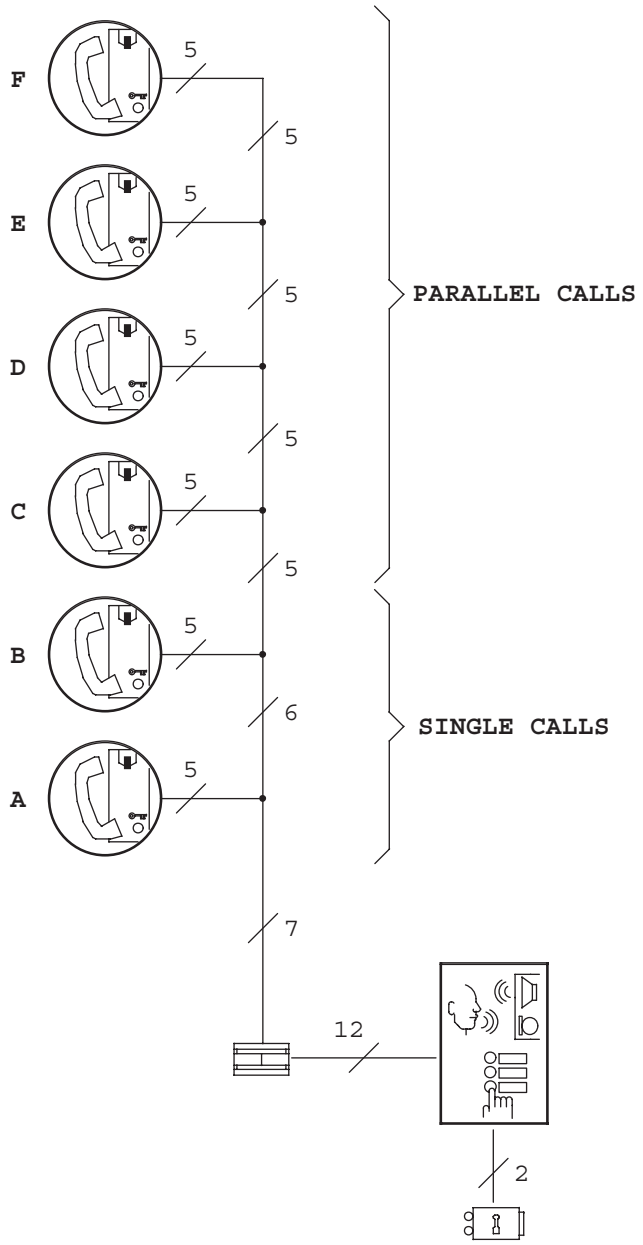
C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.007 C4.008

CONNECTION OF 6 DOOR PHONES TO 1 DOOR UNIT
Door phones A and B are called individually while door phones C-D-E-F are called in parallel

FUNCTION

By pressing U1 or U2 on the panel inside the building, a two-tone electronic call is sent to the speaker or door phone A or door phone B, respectively.
By pressing U3 on the panel, door phones C-D-E-F are all called at the same time.
Lift the handset of the called door phones to establish a conversation with the door unit. Simply press the corresponding button to release the electrical door lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1273A:

DOOR PHONE REFERENCES

N. 6	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. 6	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Button modules	**Ref. 1145/13**
N. 1	Module with door unit set-up	**Ref. 1145/20**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Button modules	**Ref. 1155/13A**
N. 1	Module with door unit	**Ref. 1155/20**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 3 buttons	**Ref. 1155/13A**
N. 1	Amplified door unit	**Ref. 1128/500**

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. 3	Button	**Ref. 1128/1-/2**
N. 3	Blank module (*)	**Ref. 1128/30-/31**

(*) for small button installation only

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001
C4.004

C4.006
Sinthesi models only:
Connect jumper L with G/T.

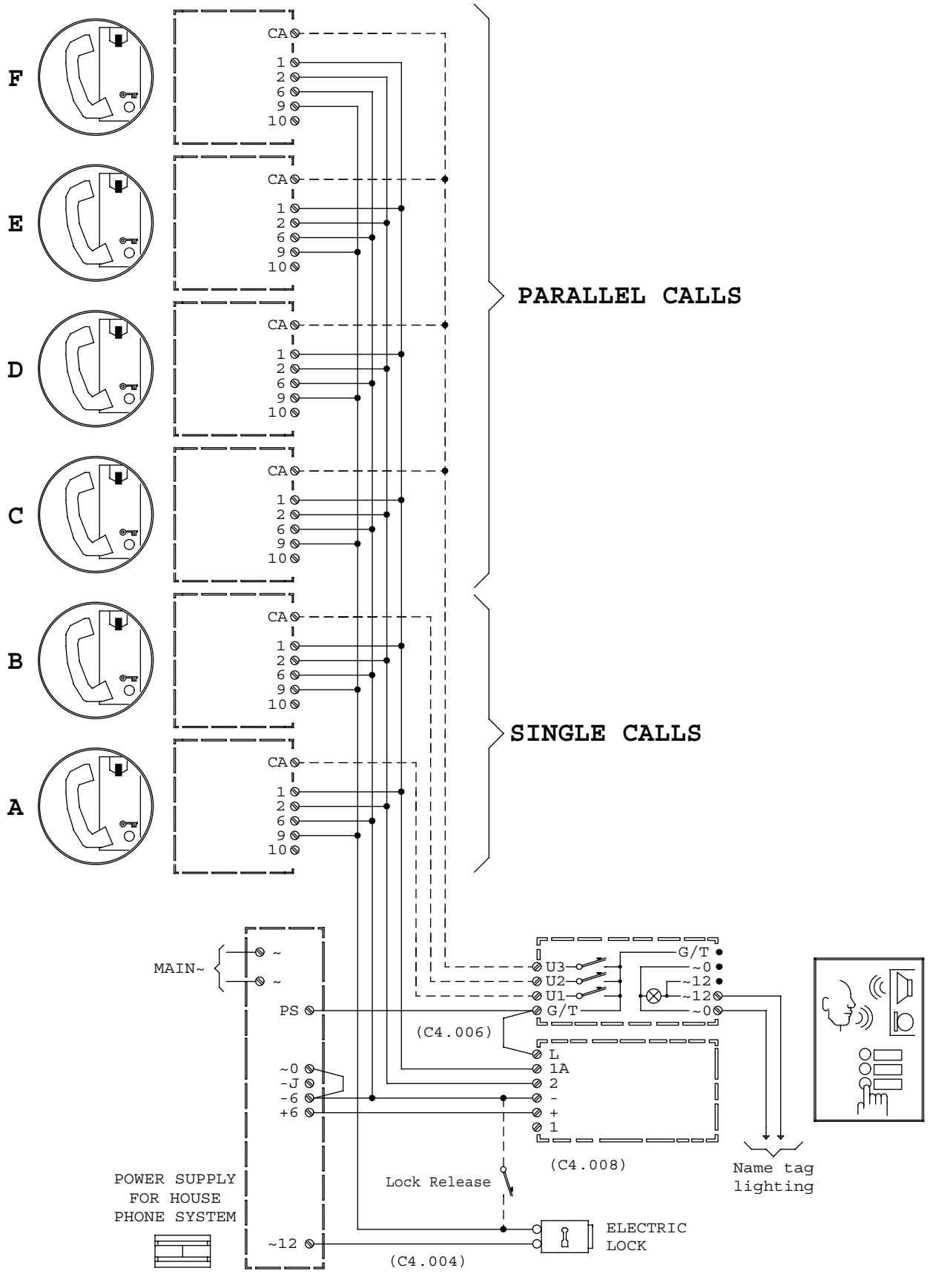
C4.008

urmet DOMUS

CONNECTION OF 6 DOOR PHONES TO 1 DOOR UNIT
Door phones A and B are called individually
while door phones C-D-E-F are called in parallel

4+n

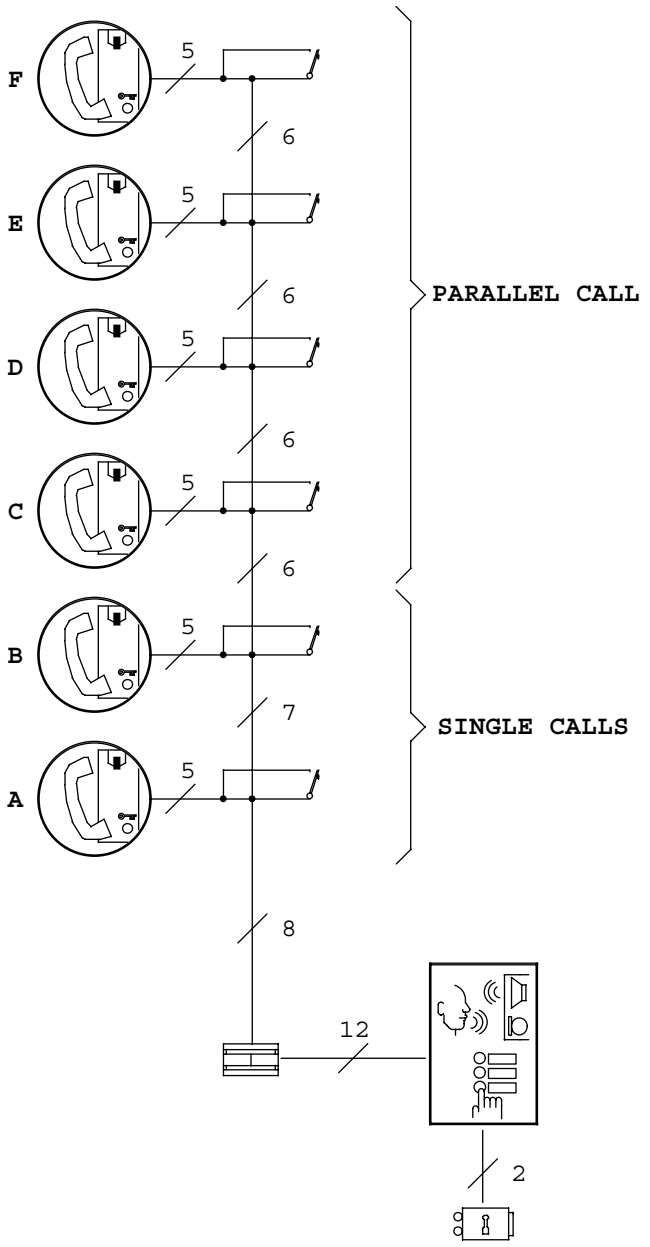
SC101-1273A



CONNECTION OF 6 DOOR PHONES TO 1 DOOR UNIT
Door phones A and B are called individually while door phones C-D-E-F are called in parallel. Floor call service with differentiated tone. Possibility of timing the door open

FUNCTION

By pressing U1 or U2 on the panel inside the building, a two-tone electronic call is sent to the speaker or door phone A or door phone B, respectively.
By pressing U3 on the panel, door phones C-D-E-F are all called at the same time.
Lift the handset of the called door phones to establish a conversation with the door unit.
Each apartment is equipped with a floor call button which will operate the ringer with a differentiated call tone with respect to that of the door unit.
Simply press the corresponding button to release the electrical door lock (operation can be timed).



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1284A:

DOOR PHONE REFERENCES

N. 6	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. 6	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/13**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Button modules	**Ref. 1145/13**
N. 1	Module with door unit set-up	**Ref. 1145/20**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Button modules	**Ref. 1155/13A**
N. 1	Module with door unit	**Ref. 1155/20**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 3 buttons	**Ref. 1155/13A**
N. 1	Amplified door unit	**Ref. 1128/500**

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. 3	Button	**Ref. 1128/1-/2**
N. 3	Blank module (*)	**Ref. 1128/30-/31**

(*) for small button installation only

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

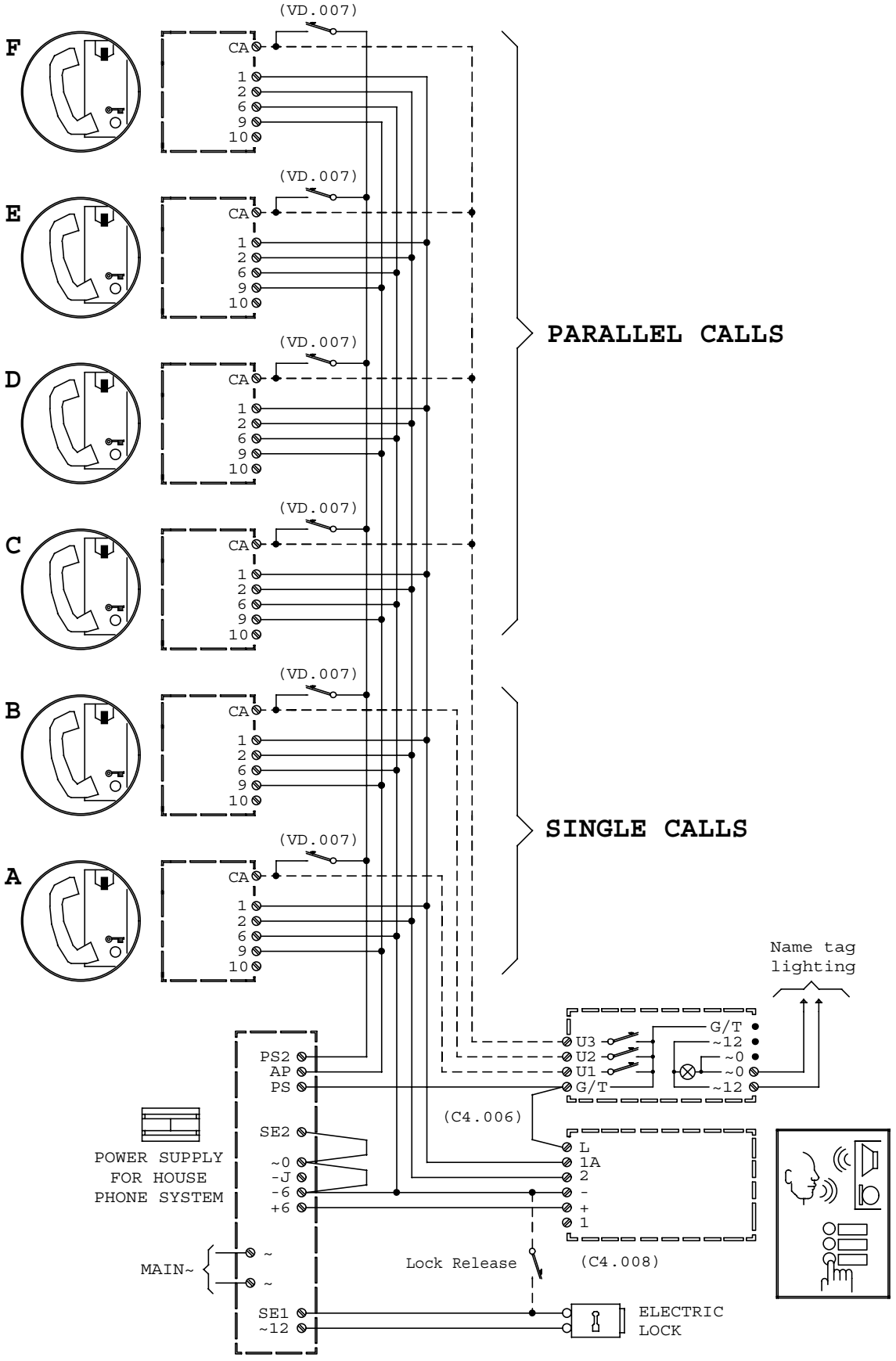
C4.008
VD.007

urmet DOMUS

CONNECTION OF 6 DOOR PHONES TO 1 DOOR UNIT
Door phones A and B are called individually while door phones C-D-E-F are called in parallel. Floor call service with differentiated tone.
Possibility of timing the door open

4+n

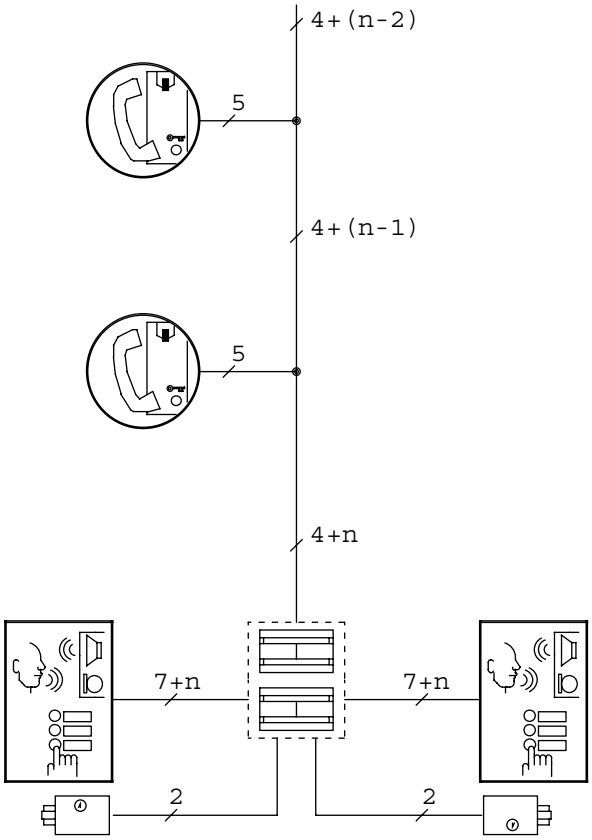
SC101-1284A



CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS
Use the relay box Ref. 788/51 and the power supply Ref. 786/11

FUNCTION

This type of installation solves the problem to connect a series of house phones of a building with 2 entrances each one equipped with a push button panel.
This solution permits, by simply pushing a button from one of the 2 push button panels, to connect automatically the user to the calling push button panels unhooking the handset. This type of installation does not allow to talk from both outdoor stations simultaneously, since they work alternatively.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1217C:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box		**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 2	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 2	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

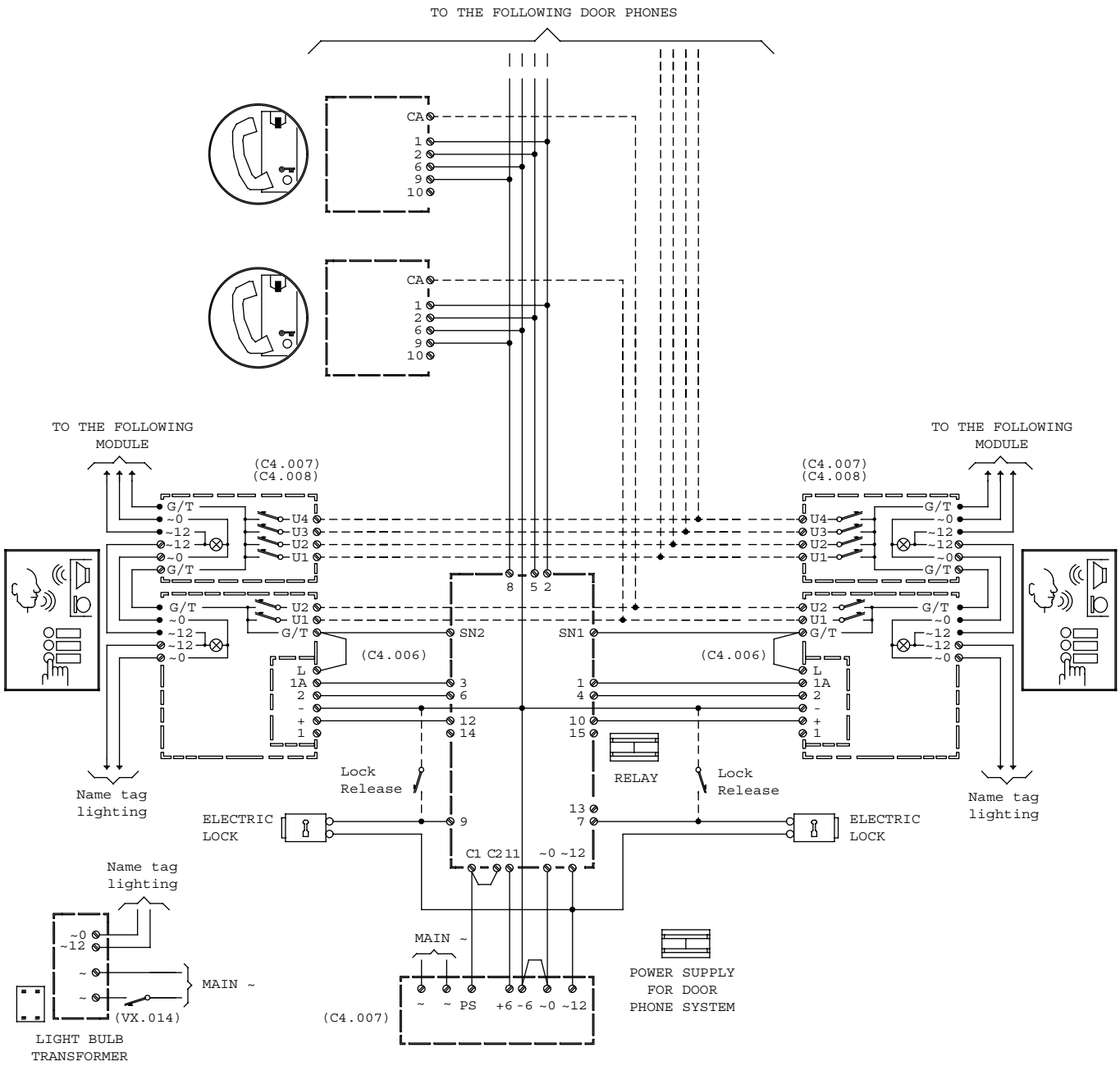
C4.007 C4.008 C4.016
VX.014

urmet DOMUS

CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS
Use the relay box Ref. 788/51 and the power supply Ref. 786/11

4+n

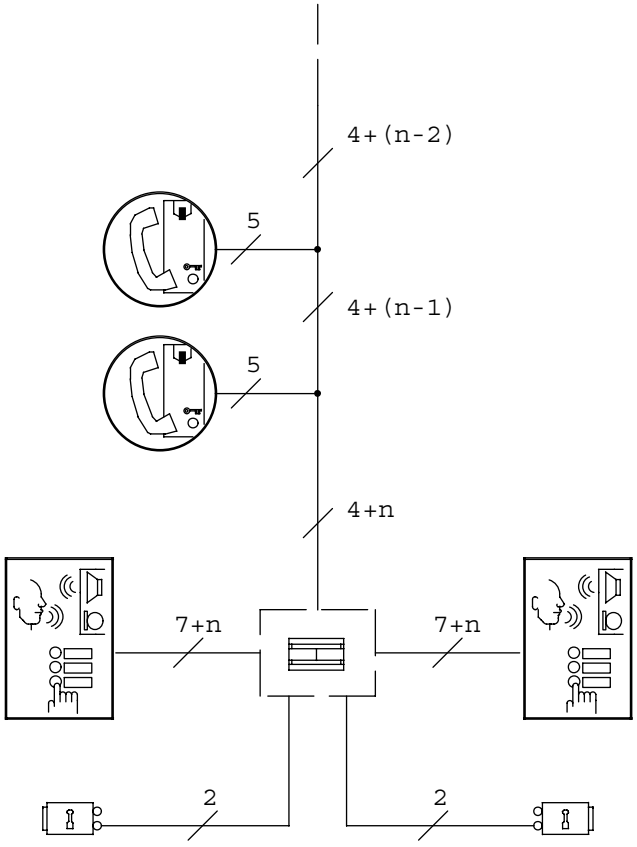
SC101-1217C



CONNECTION OF SEVERAL DOOR PHONE TO 2 DOOR UNITS
Differentiated calls from door units.
Use the power supply wiht relay Ref. 786/15

FUNCTION

This type of system solves the problem of connecting a door phone column in a building with two entrances, each of which equipped with one panel and respective door unit.
In this solution, a visitor can simply press a button on either of the two panels. The called door phone user can pick up the call and automatically connect to the calling panel. The other panel will be cut off.
As a consequence, it is not possible in such as system to speak to two door units at the same time because either one or the other will be cut off.
The user can recognise which door unit generated the call thanks to two different call tones.
Simply press the corresponding button to release the electrical door lock of the door unit from where the call was generated.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1280A:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	**Ref. 786/15**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 2	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 2	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

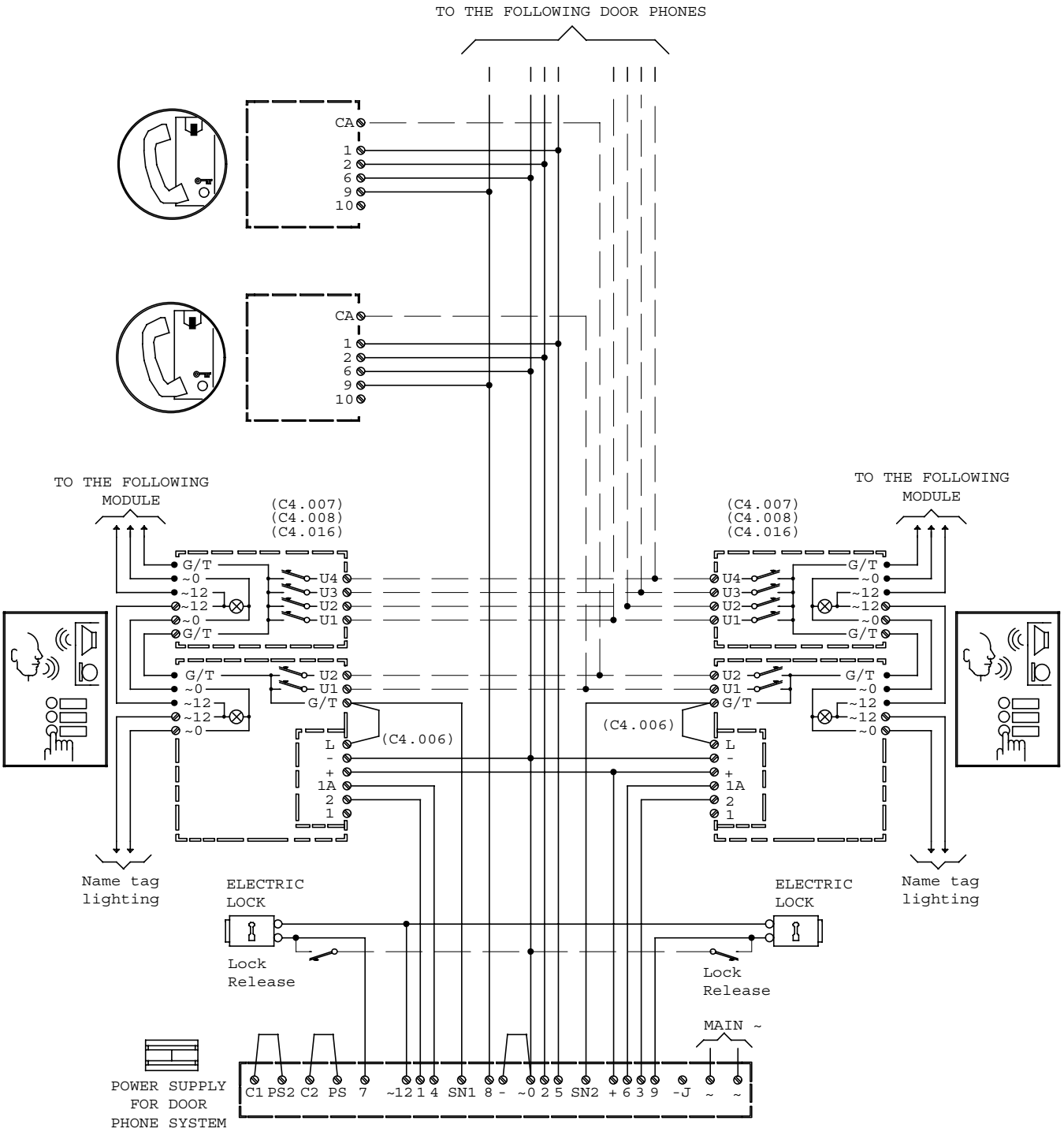
C4.007 C4.008 C4.016

urmet DOMUS

CONNECTION OF SEVERAL DOOR PHONE TO 2 DOOR UNITS
Differentiated calls from door units.
Use the power supply wiht relay Ref. 786/15

4+n

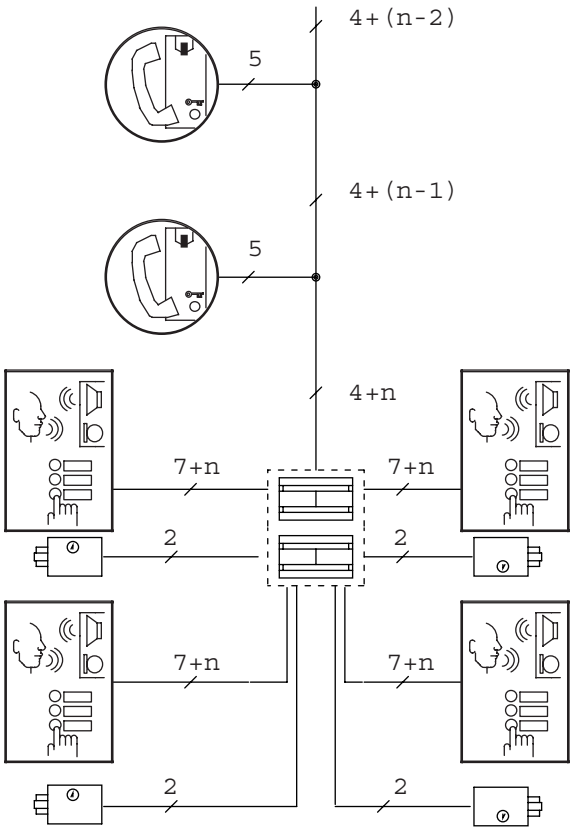
SC101-1280A



CONNECTION OF SEVERAL DOOR PHONES TO 4 OUTDOOR STATIONS

FUNCTION

This installation allows connection of a series of door phone to 4 push button panels.
By simply pushing a button on one of the 4 panels, the called door phone, picking up the handset, is automatically connected with the calling push button panel.
It is not possible to talk from the outdoor stations simultaneously, since they work alternatively.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1209C:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box		**Ref. 788/58**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 4	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 4	Panel with N buttons	**Mod. 725**
N. 4	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 4	Front case for door unit	**Ref. 1128/20-/21**
N. 4	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

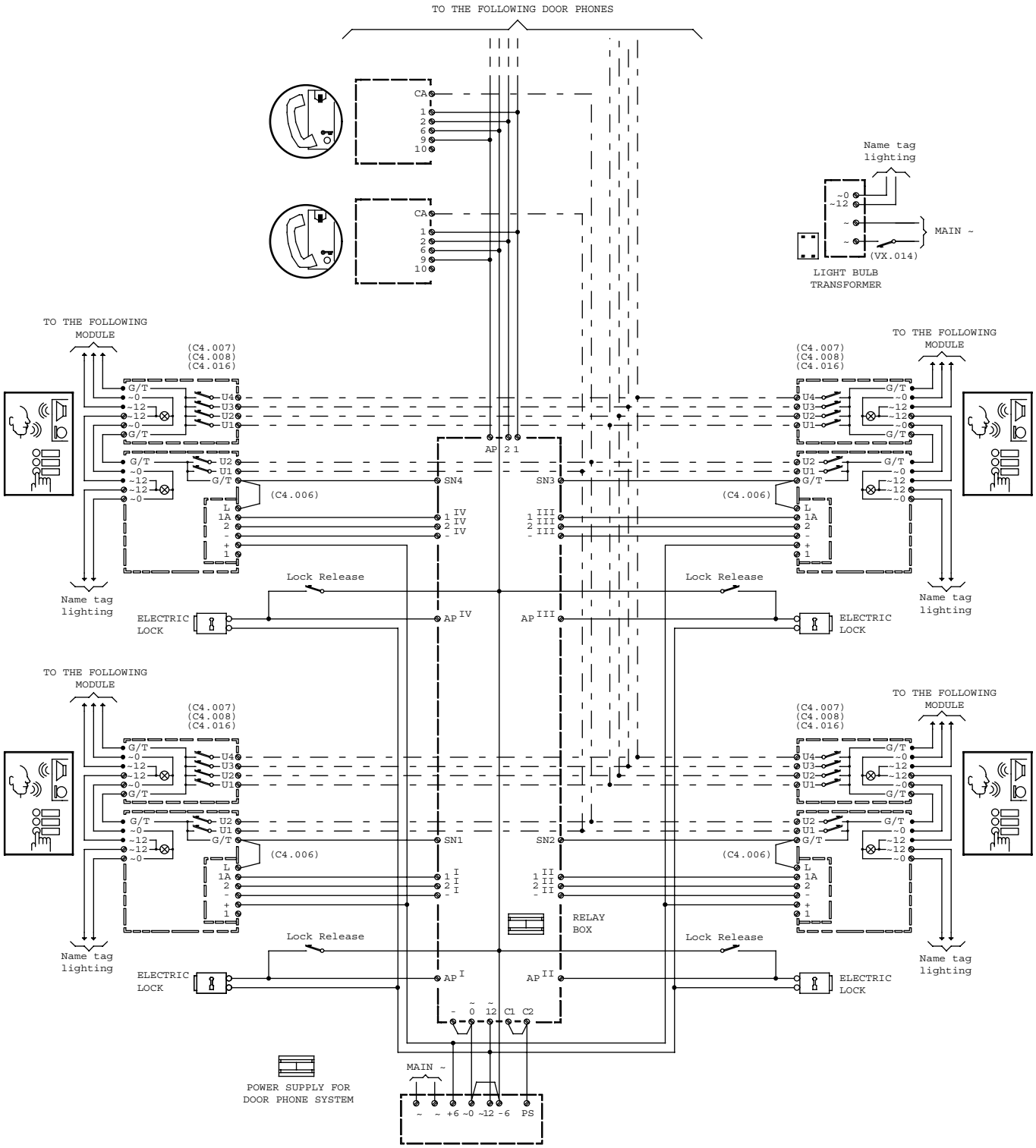
(see section 1)

C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.007 C4.008 C4.016 VX.014

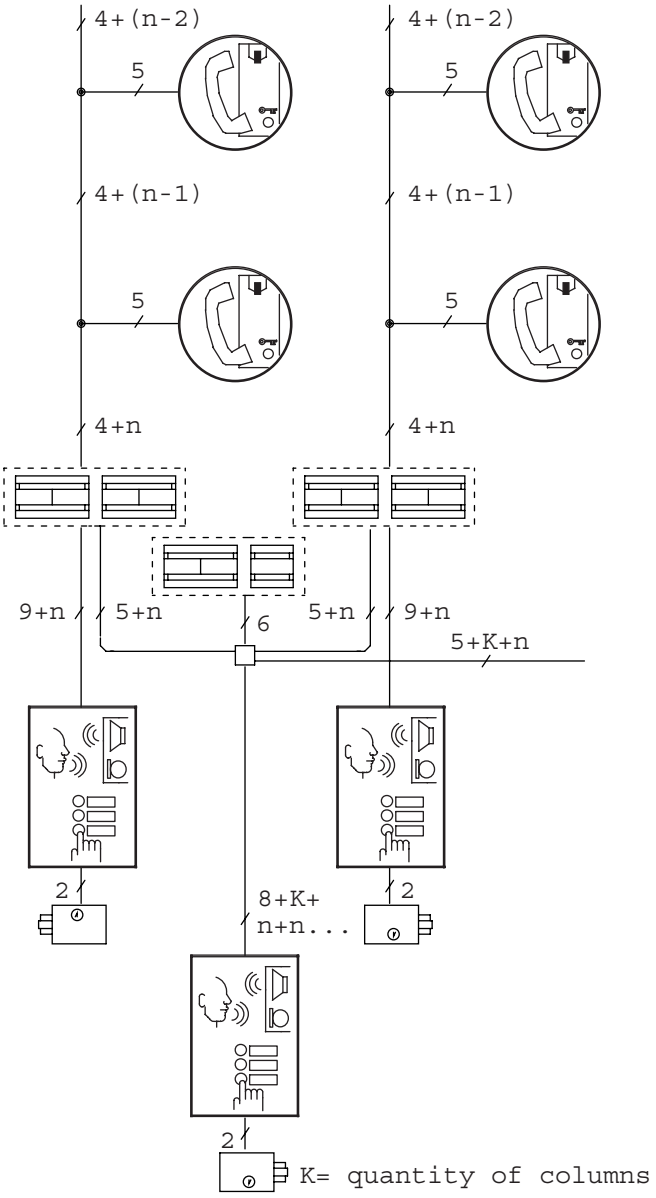
SC101-1209C


TO THE FOLLOWING DOOR PHONES
CA
1
2
6
9
10
Name tag lighting
~0
~12
MAIN ~
(VX.014)
LIGHT BULB TRANSFORMER
TO THE FOLLOWING MODULE
(C4.007)
(C4.008)
(C4.016)
G/T
U4
U3
U2
U1
AP 2 1
SN4
SN3
SN1
SN2
(C4.006)
L
1A
2
-
+
1
IV
III
II
I
Lock Release
ELECTRIC LOCK
AP IV
AP III
AP I
AP II
Name tag lighting
RELAY BOX
~ ~
- 0 12 C1 C2
POWER SUPPLY FOR DOOR PHONE SYSTEM
MAIN ~
~ ~ +6 ~0 ~12 -6 PS

CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION
Each column is also connected to its own secondary outdoor station.
Use the relay box Ref. 788/51 and the power supply Ref. 786/11

FUNCTION

It is the ideal solution for residential centers where the single villas have to be connected to both their own outdoor stations and a common one at the main entrance.
During the call the concerned door phone is automatically switched to the common outdoor station or to the one of the group it belongs to, by means of a switching relay.
Services towards secondary outdoor stations are independent and can therefore take place at the same time.
When the call comes from the common outdoor station, only the group the called door phone belongs to is switched to it, the others being able to carry on the normal service with their own secondary outdoor stations.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1240A:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. K	Relay box		**Ref. 788/51**
N. 1	Call repeater relay		**Ref. 788/52**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. K+1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. K+1	Panel with N buttons	**Mod. 725**
N. K+1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. K+1	Front case for door unit	**Ref. 1128/20-/21**
N. K+1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

(*K= quantity of columns*)

urmet DOMUS

CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION

Each column is also connected to its own secondary outdoor station.
Use the relay box Ref. 788/51 and the power supply Ref. 786/11

4+n

SC101-1240A

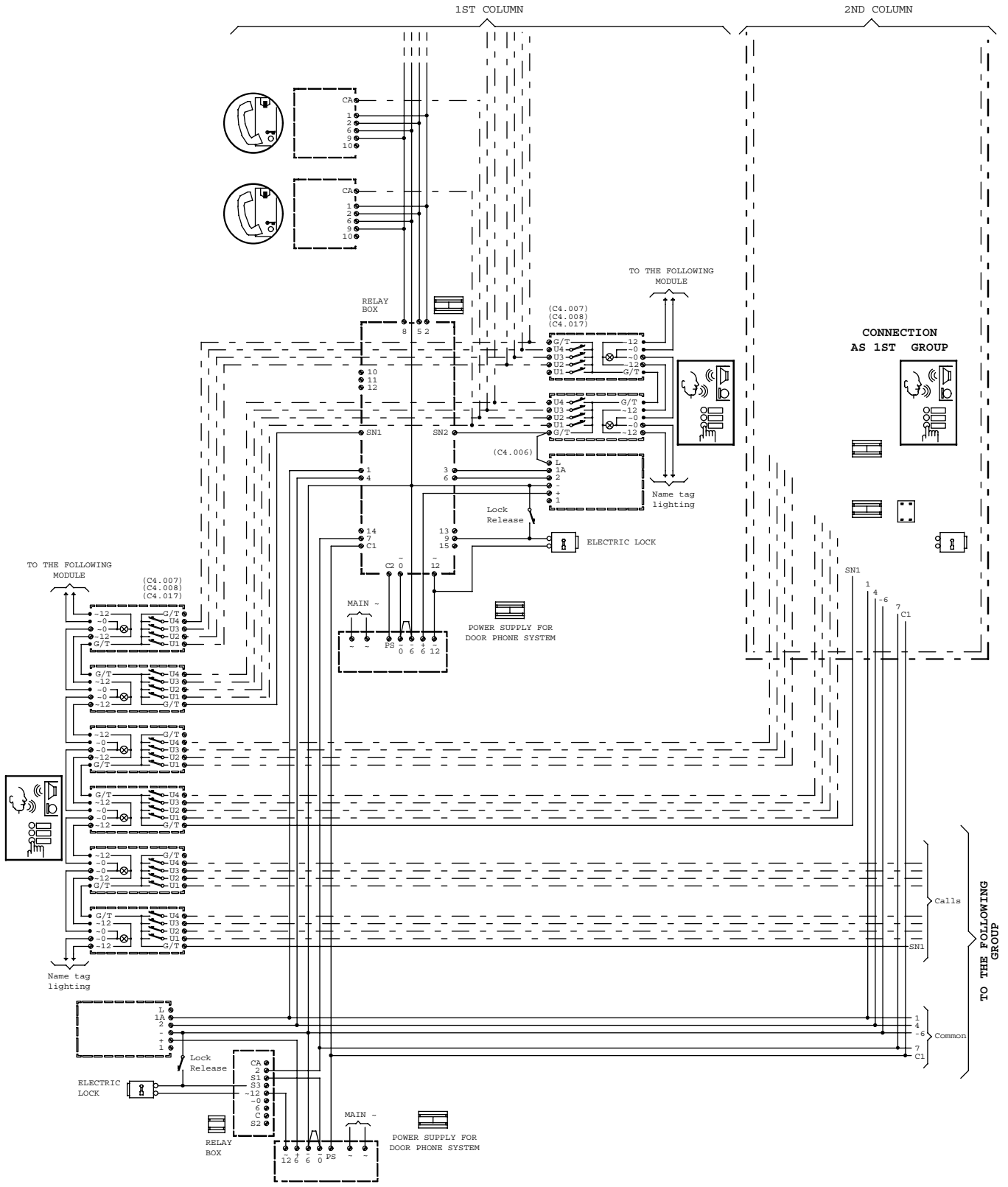


DIAGRAM NOTES

(see section 1)

C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

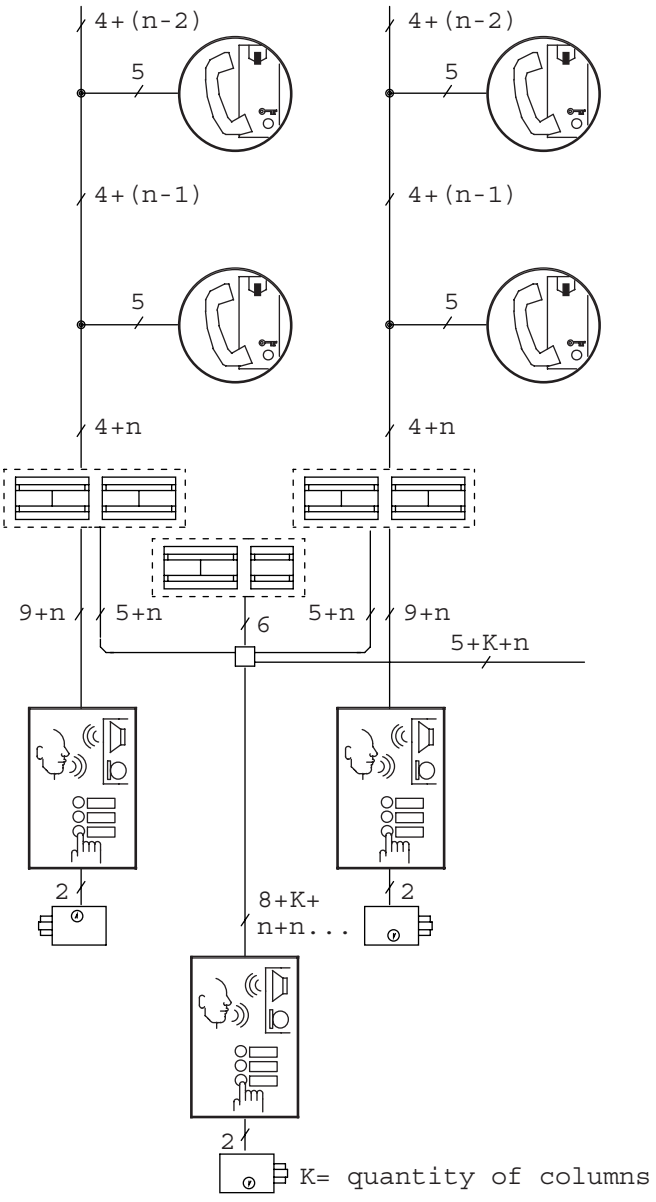
C4.007 C4.008 C4.017

CONNECTION OF SEVERAL DOOR PHONE COLUMNS TO 1 MAIN DOOR UNIT

Each column is connected to a secondary door unit. Differentiated calls from door units. Use the power supply wiht relay Ref. 786/15

FUNCTION

The system is useful in residential centres where individual houses or blocks need to be connected to their own door units and to a common door unit located at the main entrance.
The concerned door phone is automatically switched onto the common door unit or onto the secondary door unit of the concerned group when called by means of a switching relay.
Services to secondary door units are mutually interdependent and therefore may occur at the same time.
When a call is made from the common door unit, only the group to which the called door phone belongs is switched. The other door phones can be continue to work with their own secondary units.
The user can recognise calls from the main door unit or the secondary door unit thanks to two different call tones.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1282A:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY AND RELAY REFERENCES

N. K	Column power supply		**Ref. 786/15**
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Call repeater relay		**Ref. 788/52**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. K+1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or:

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. K+1	Panel with N buttons	**Mod. 725**
N. K+1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. K+1	Front case for door unit	**Ref. 1128/20-/21**
N. K+1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

urmet DOMUS

CONNECTION OF SEVERAL DOOR PHONE COLUMNS TO ONE MAIN DOOR UNIT

Each column is connected to a secondary door unit. Differentiated calls from door units. Use the power supply wiht relay Ref. 786/15

4+n

SC101-1282A

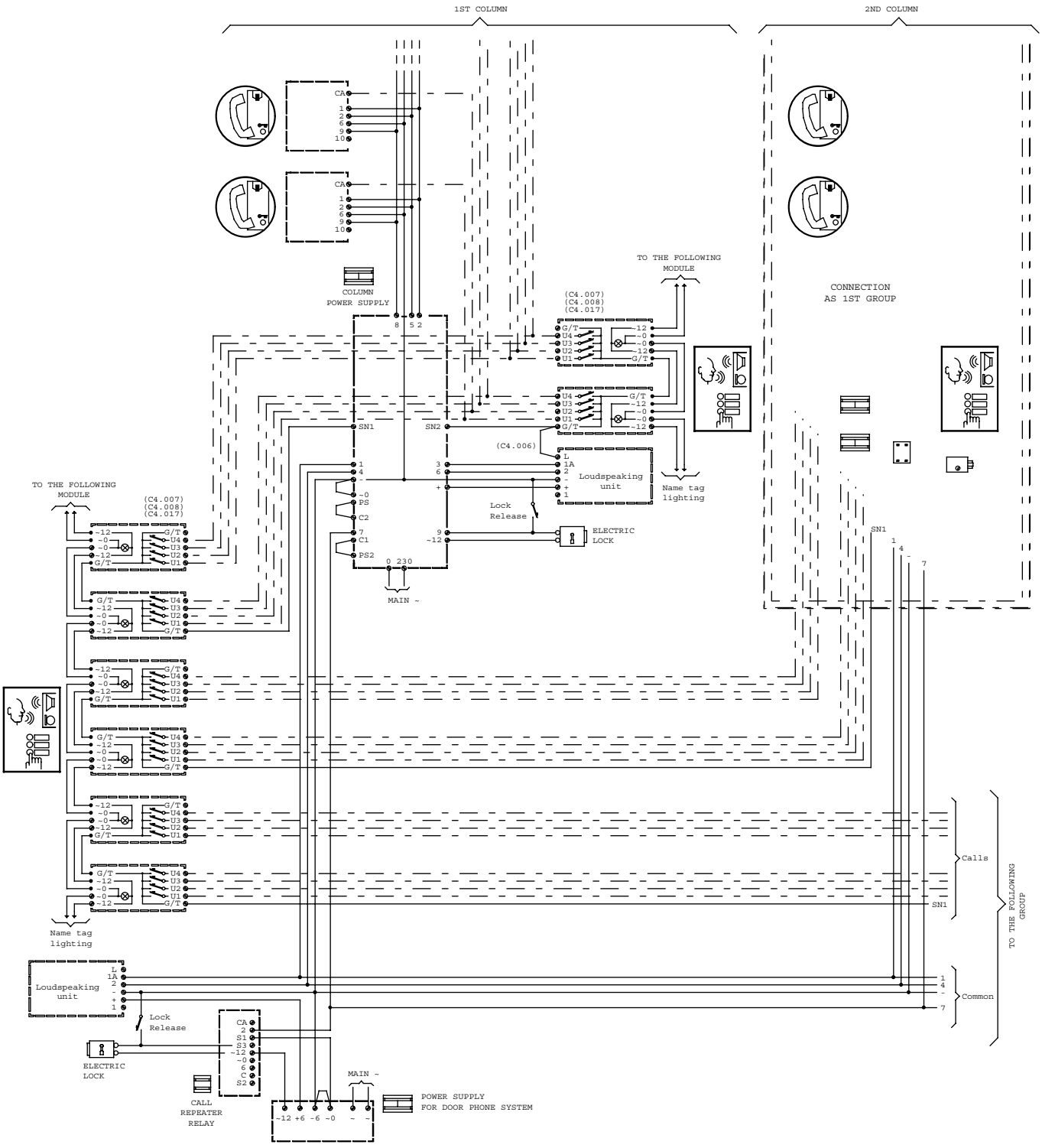


DIAGRAM NOTES

(see section 1)

C4.001

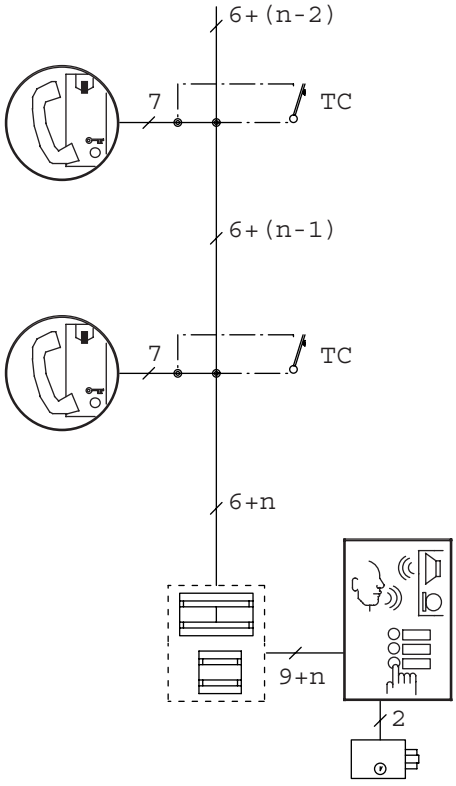
C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.007 C4.008 C4.017

CONNECTION OF SEVERAL DOOR PHONES MODEL ATLANTICO TO 1 OUTDOOR STATIONS
Floor calls on the supplementary loudspeaker

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent door phone loudspeaker. When the called door phone handset is unhooked, contact is established and conversation may take place. To operate the electric lock it is sufficient to press the proper push button.
Floor calls can be differentiated from door unit calls by adding devices Ref. 787/1.
The additional loudspeaker Ref. 9854/54 has more high call tone.
This type of system can be made with Atlantico door phones only.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1248A:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Atlantico	**Ref. 1133**
N. X	Additional speaker	**Ref. 9854/54**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Tone generator		**Ref. 787/1**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

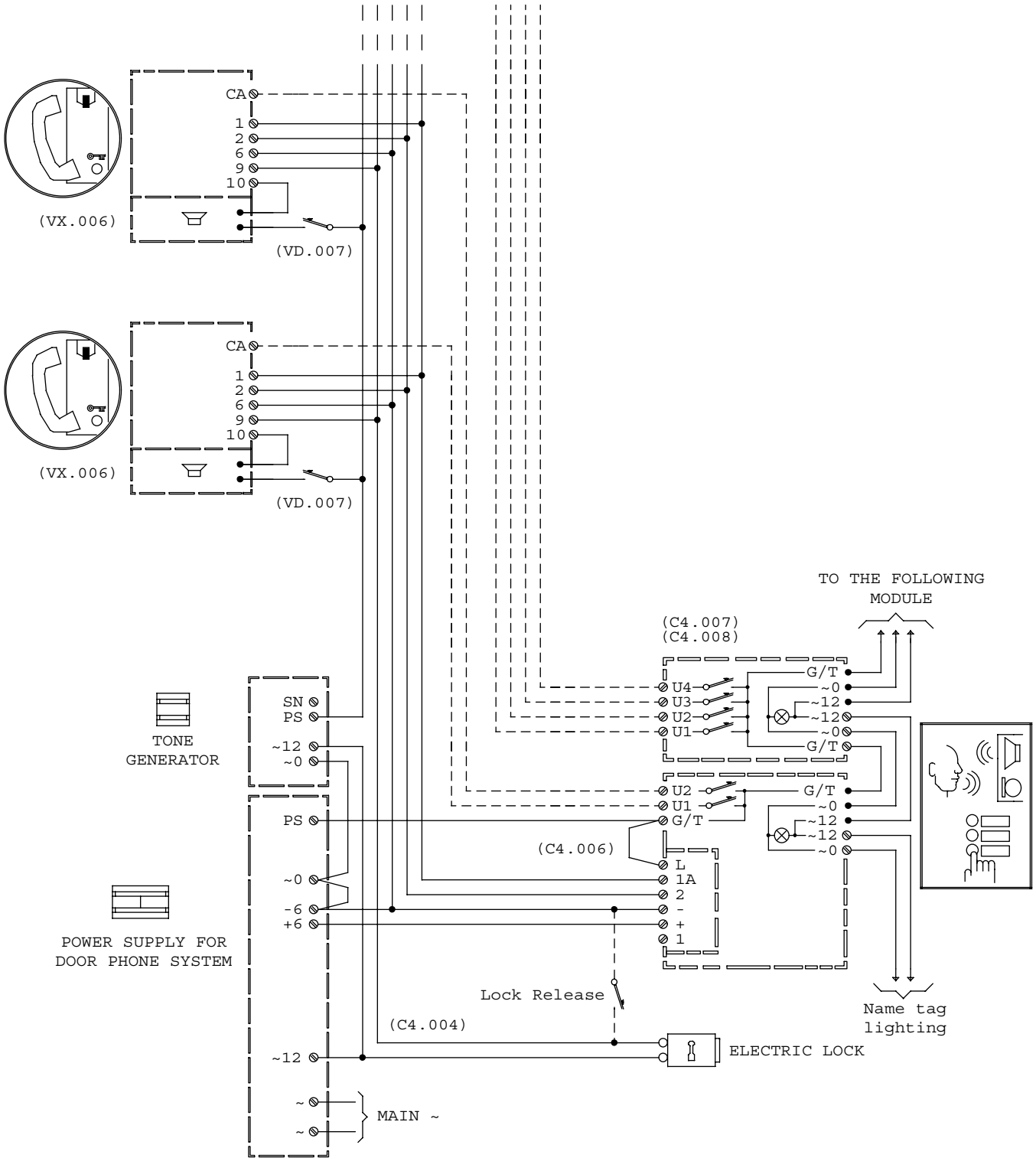
C4.001
C4.004

C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.007 C4.008 VD.007 VX.006

CONNECTION OF SEVERAL DOOR PHONES MODEL ATLANTICO TO 1 OUTDOOR STATIONS
Floor calls on the supplementary loudspeaker

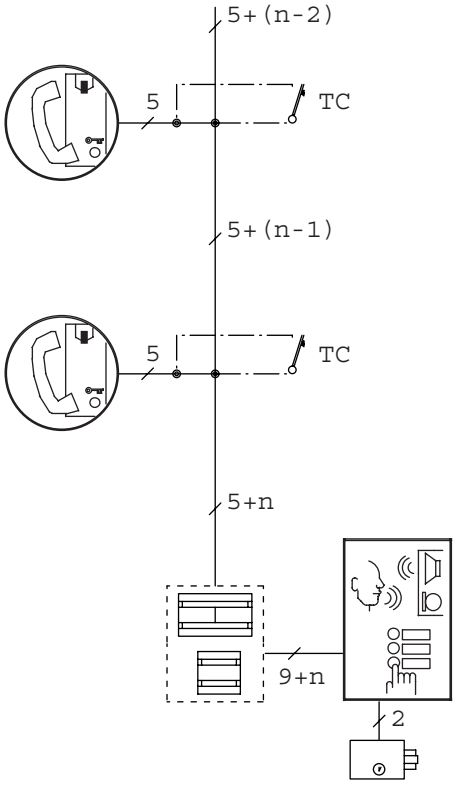
SC101-1248A



CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Connection of the sound generator to call door phones from the floor using the same loudspeaker

FUNCTION

When one of the keys of the push button panel located outside the building is pressed, the two-tone electronic call is sent to the loudspeaker of the matching door phone. When the handset of the door phone called is lifted, the contact between the outside and inside is established and the conversant can start.
To activate the electric lock, press the matching key.
Adding the Ref. 787/1 tone generator, it is possible to use the loudspeaker of the door phone for the call from the floor without having to add other buzzers. The call tone differs from that sent to the push button panel making it possible to identify the source.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0252D:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Tone generator		**Ref. 787/1**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

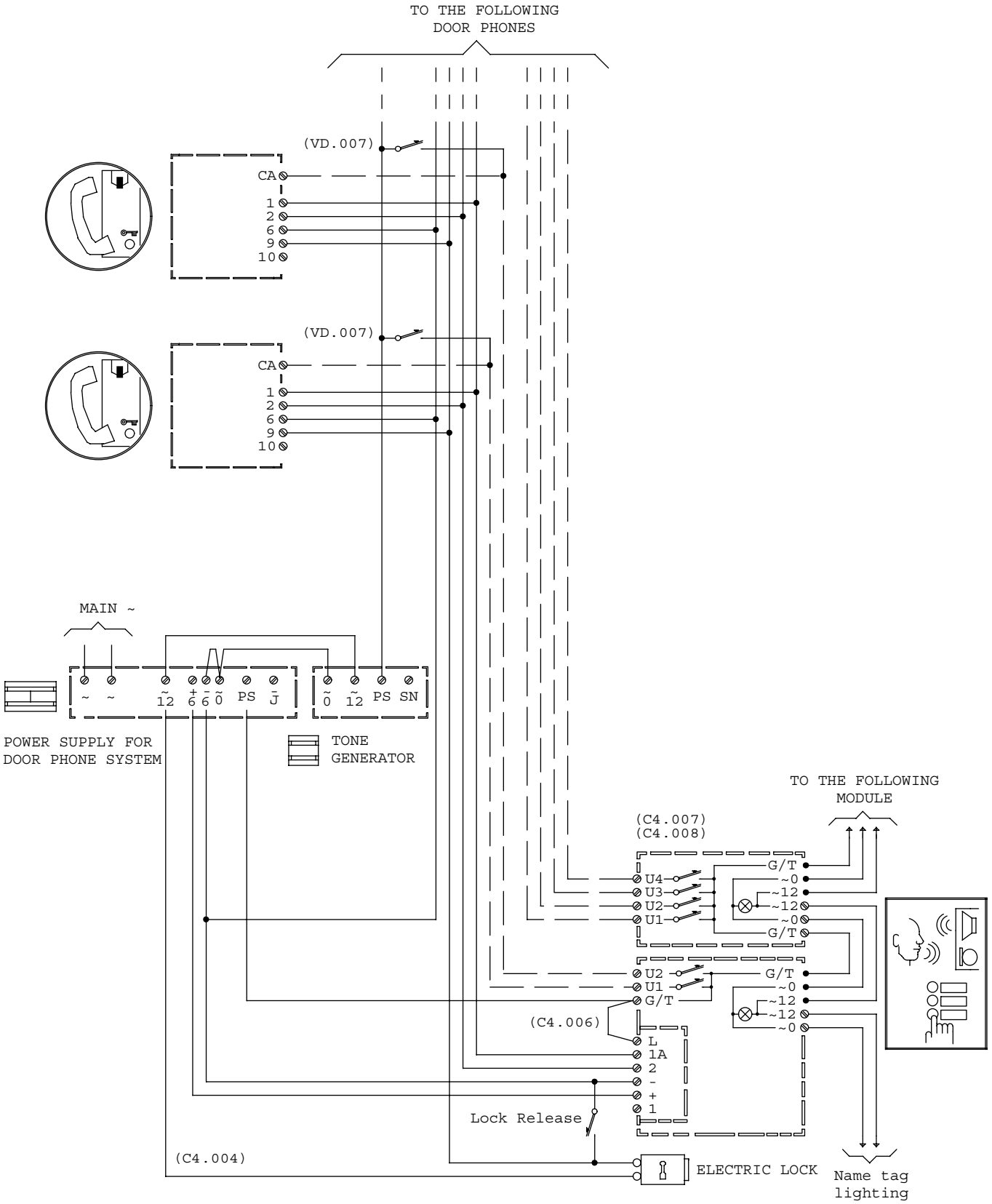
DIAGRAM NOTES

(see section 1)

C4.001 C4.004 C4.006 C4.007 C4.008 VD.007

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Connection of the sound generator to call door phones from the floor using the same loudspeaker

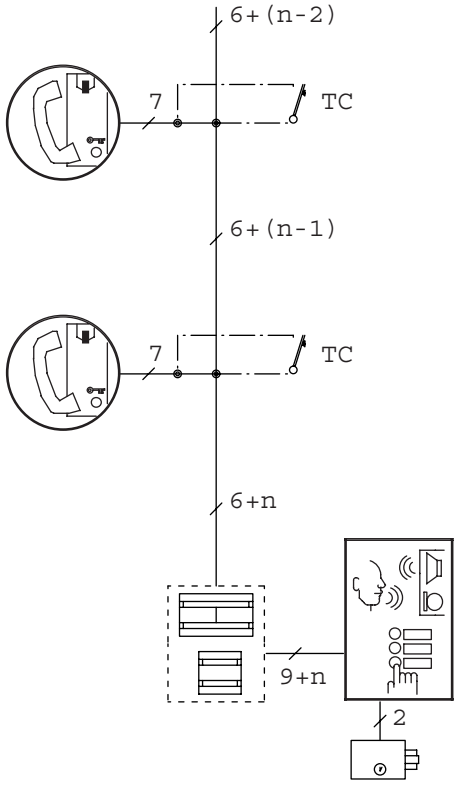
SC101-0252D



CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Solution using the three-tone gong kit for differentiated call to the floor
The calls from the push button panel are sent with sound generator
Those to the floor with add-on device for call Ref. 1132/54

FUNCTION

When one of the keys of the push button panel located outside the building is pressed, the two-tone electronic call is sent to the Loudspeaker of the matching door phone. When the handset of the door phone called is lifted, the contact between the outside and inside is established and the conversation can start. To activate the electric lock, press the matching key.
Adding the three-tone Gong kit inside each door phone and an extra power supply, the call can be made to the floor differentiating this from those sent by the external push button panel. The Ref. 1132/54 makes it possible to transform the normal call signal into a three-toner Gong to be sent to the loudspeaker of the door phone.
This device must be powered at 12Vdc; additional power unit Ref. 1090/850 may be used. For this purpose, include one additional wire in the system for the "+" terminal and another additional wire to connect to the "PS" terminal of the door phone power unit cut by the floor call button.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0791E:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**
N. X	Add-on device for call		**Ref. 1132/54**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Additional power unit		**Ref. 1090/850**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to "Panels with anodized aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001 C4.004
C4.006 C4.007
C4.008 VX.006
VD.007

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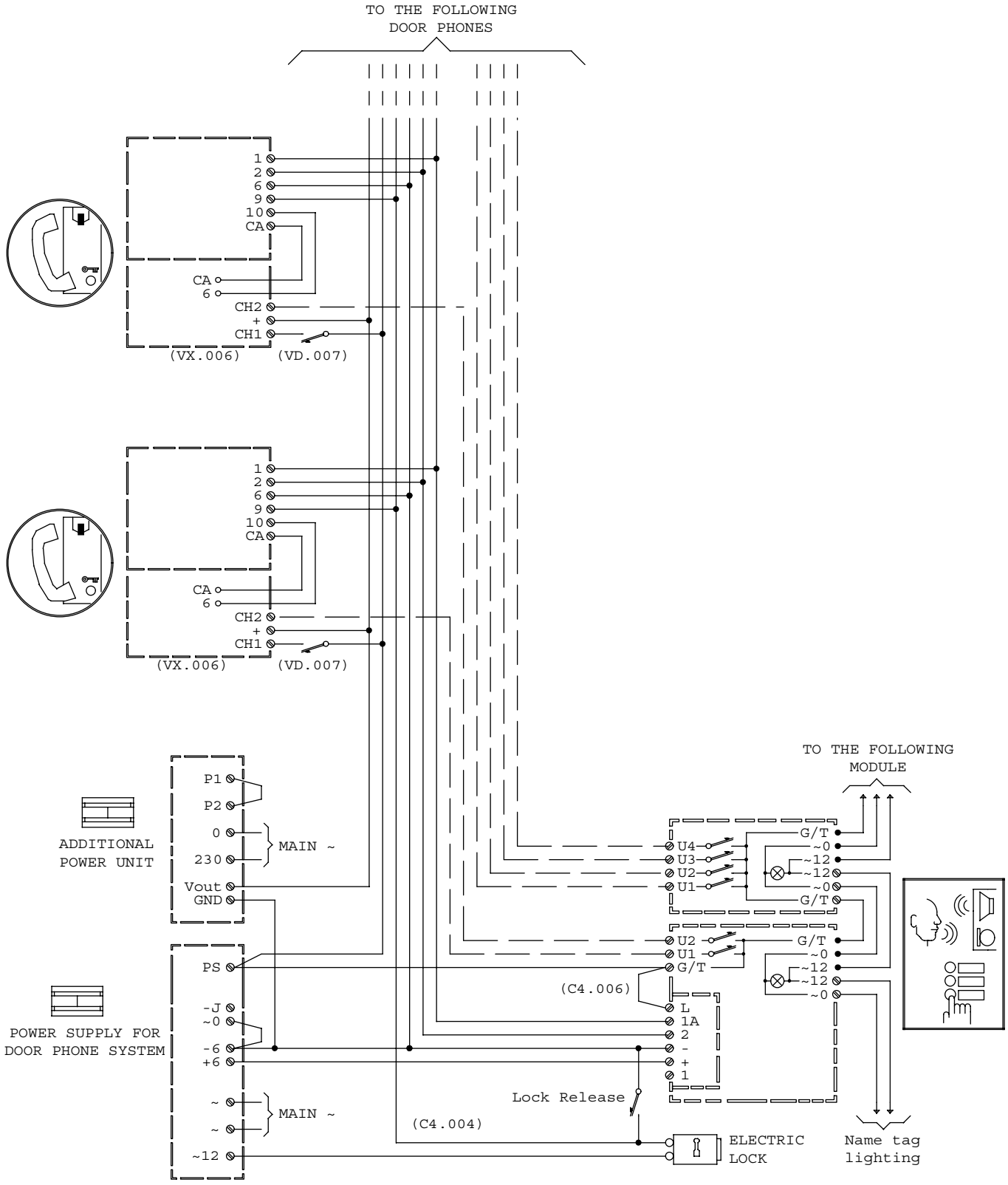
CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Solution using the three-tone gong kit for differentiated call to the floor
The calls from the push button panel are sent with sound generator
Those to the floor with add-on device for call Ref. 1132/54

4+n

SC101-0791E



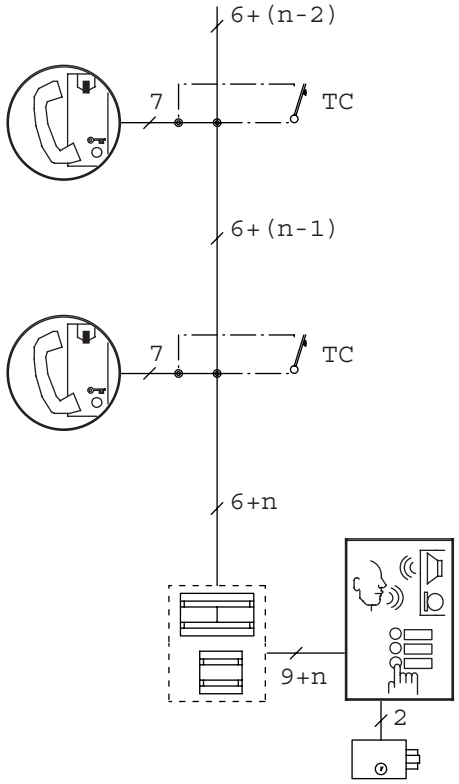
4+n

CONNECTION OF SEVERAL DOOR PHONES TO 1 DOOR UNIT
Solution using additional differential floor call device Ref. 9854/53

urmet DOMUS

FUNCTION

When one of the keys of the push button panel located outside the building is pressed, the two-tone electronic call is sent to the Loudspeaker of the matching door phone. When the handset of the door phone called is lifted, the contact between the outside and inside is established and the conversation can start. To activate the electric lock, press the matching key.
Floor calls can be differentiated from door unit calls by fitting an additional device inside each door phone.
The device must be powered either at 12Vdc or 12Vac. For powering the device at 12Vac, simply include one extra wire in the column connected to the door phone power unit terminal ~12. Use an additional dc power unit Ref. 1090/850 to power the device is powered at 12Vdc.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1070C:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**
N. X	Add-on device for call		**Ref. 9854/53**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Additional power unit		**Ref. 1090/850**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

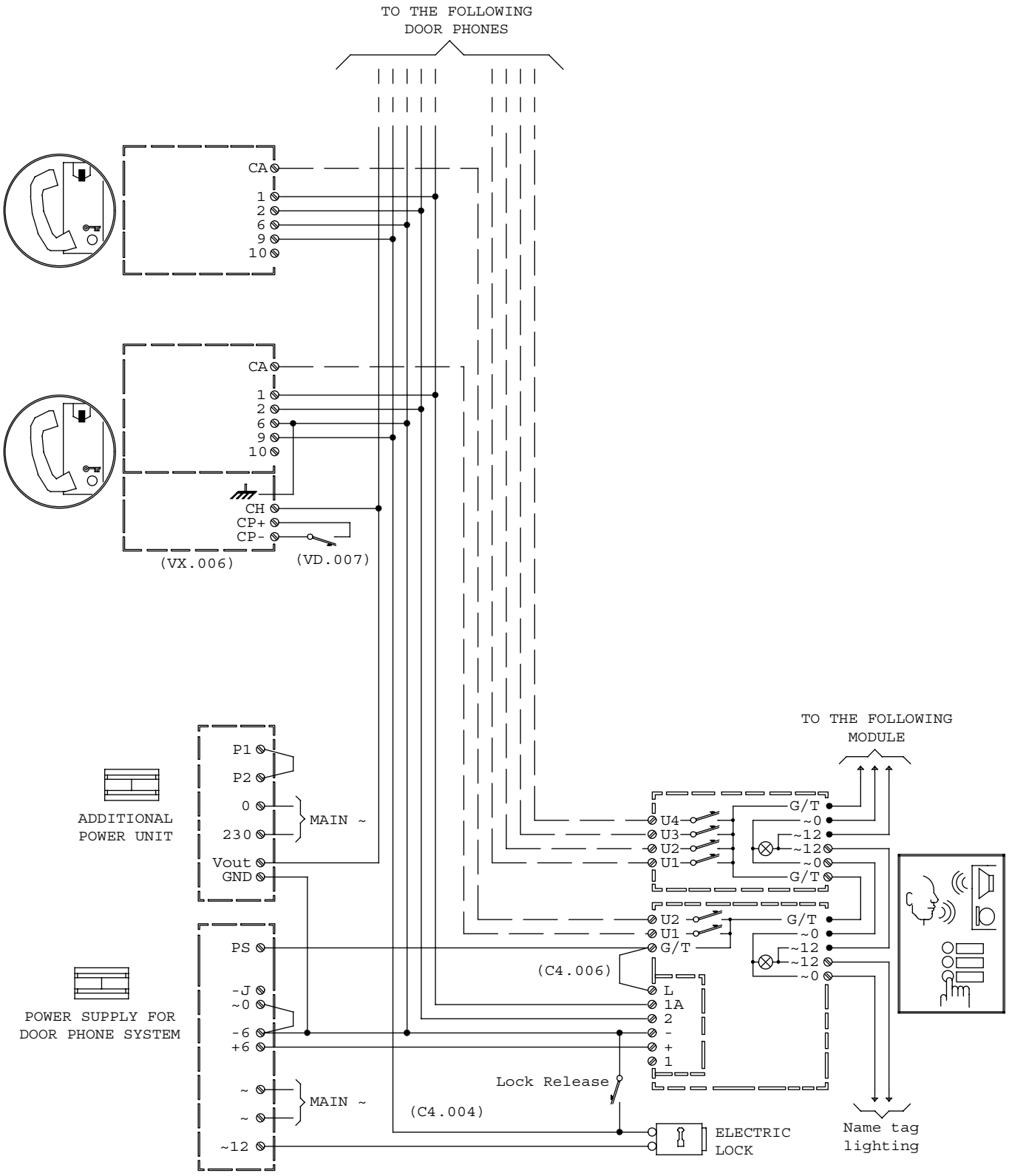
DIAGRAM NOTES

(see section 1)

C4.001 C4.004
C4.006 C4.007
C4.008 VD.007
VX.006

CONNECTION OF SEVERAL DOOR PHONES TO 1 DOOR UNIT
Solution using additional differential floor call device Ref. 9854/53

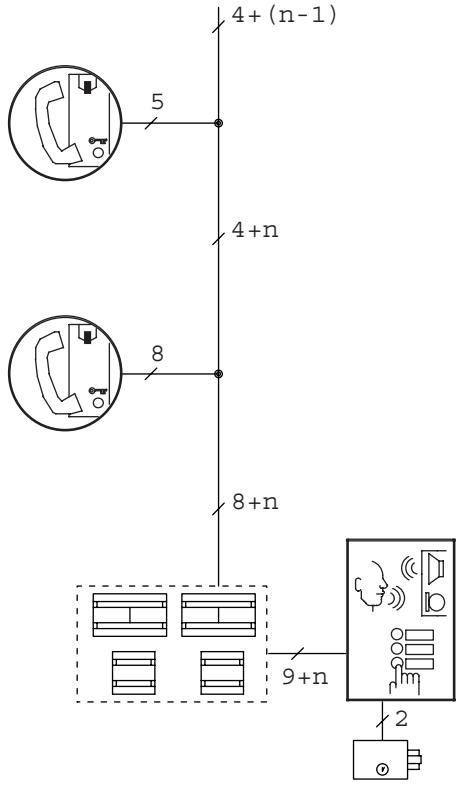
SC101-1070C



CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Door phone "A" can open door during call from panel

FUNCTION

This service is particularly required by professional offices, where a lot of people coming in and out obliges to often open the door without the use of the door phone to talk with the outside.
Scheme SC101-0289 I shows the connection of one or more house phones suitable for this service in a normal outdoor system. The relay box Ref. 788/52 and the power supply Ref. 1090/850 have to be foreseen.
With the switch in ON position, when the visitors calls the door phone buzzer doesn't ring, but the relay starts and automatically opens the electric lock.
The switch ON position is signaled on the door phone by GREEN LED lighting.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0289 I:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

DOOR PHONE "A" REFERENCES

N. 1	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
	+ mute kit	**Ref. 1133/56**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Additional power unit		**Ref. 1090/850**
N. 1	Transformer		**Ref. 9000/230**
N. 1	Relay box		**Ref. 788/52**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to "Panels with anodized aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

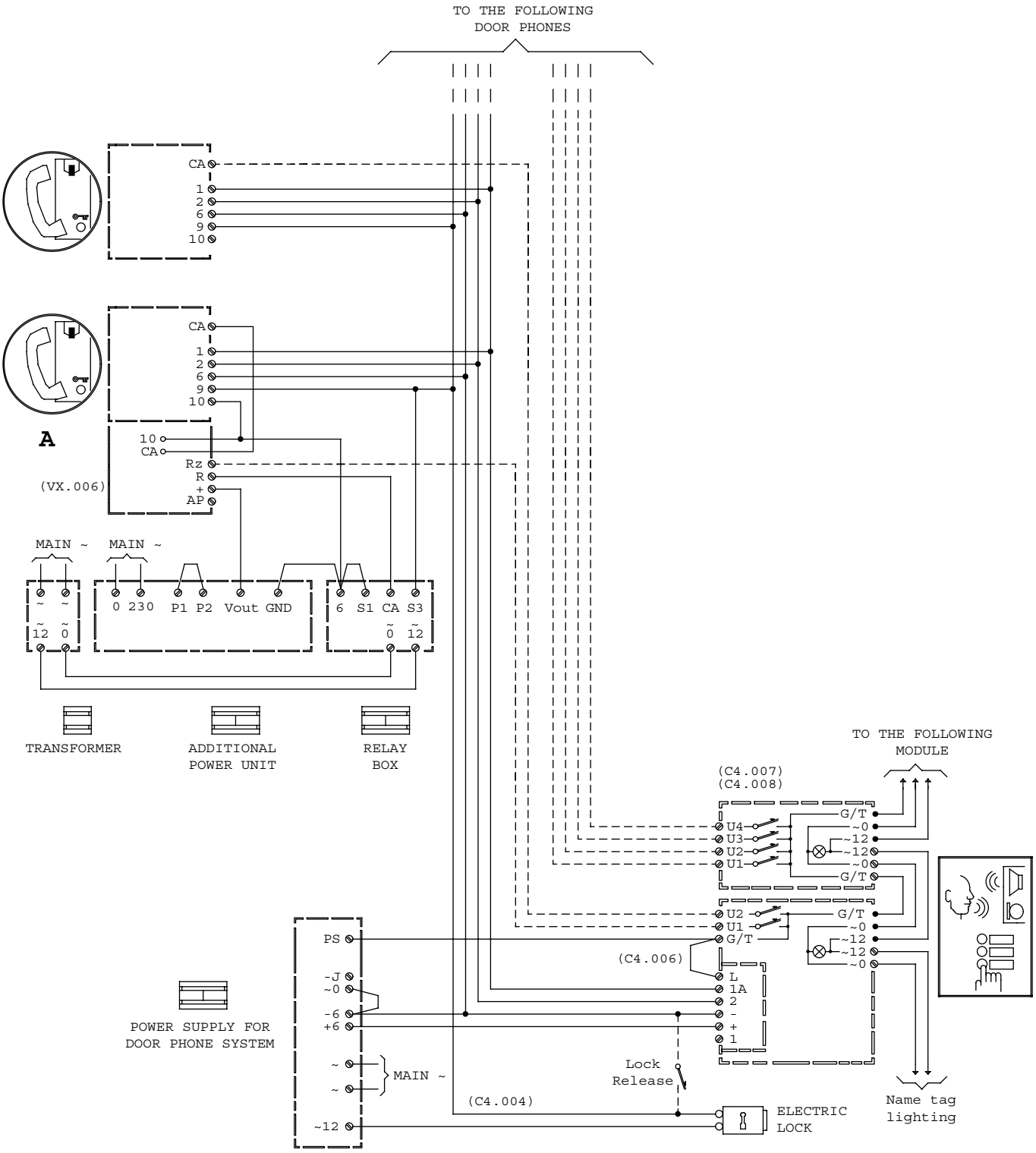
DIAGRAM NOTES

(see section 1)

C4.001 C4.004
C4.006 C4.007
C4.008 VX.006

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Door phone "A" can open door during call from panel

SC101-0289 I



4+n

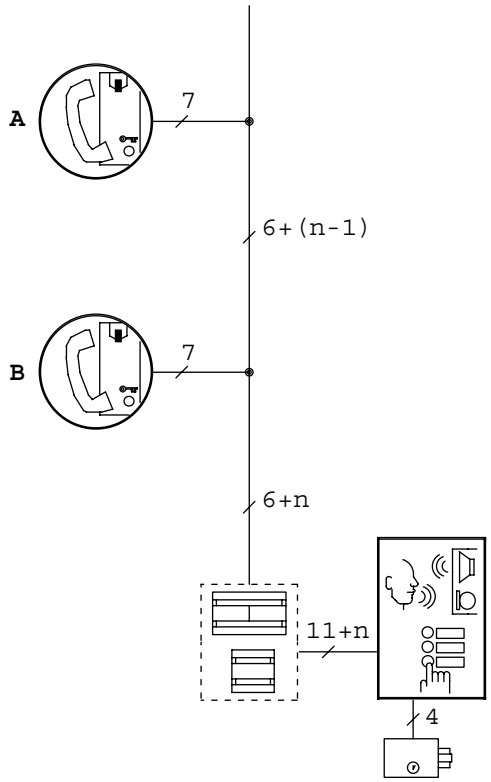
CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Door open light indicator.
Possibility of cutting out calls and respective indications

urmet DOMUS

FUNCTION

Possibility of cut-off. (privacy on)
With an installation as per Scheme SC101-1226B, operation will be the following:
With the switch in OFF position the call sent from push button panel will reach the proper door phone loudspeaker; the GREEN LED is off.
With the switch in ON position the door phone is cut-off and the GREEN LED is on (the circuit between RZ and R is closed).

Possibility of main door gate check
Connect as shown in diagram for providing open door signalling function. and to equip the door with the proper contact.
With said installation the RED LED of all house phones will be on when the main door gate is open.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1226B:

DOOR PHONE REFERENCES

DOOR PHONE "A" REFERENCES

Max. 7	Door phone Mod. Atlantico with 2 LEDs 1 switch	**Ref. 1133/20**

DOOR PHONE "B" REFERENCES

Max. 7	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
Max. 7	Mute kit + led	**Ref. 1133/56**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Additional power unit "A"		**Ref. 1090/850**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 4	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to "Panels with anodized aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

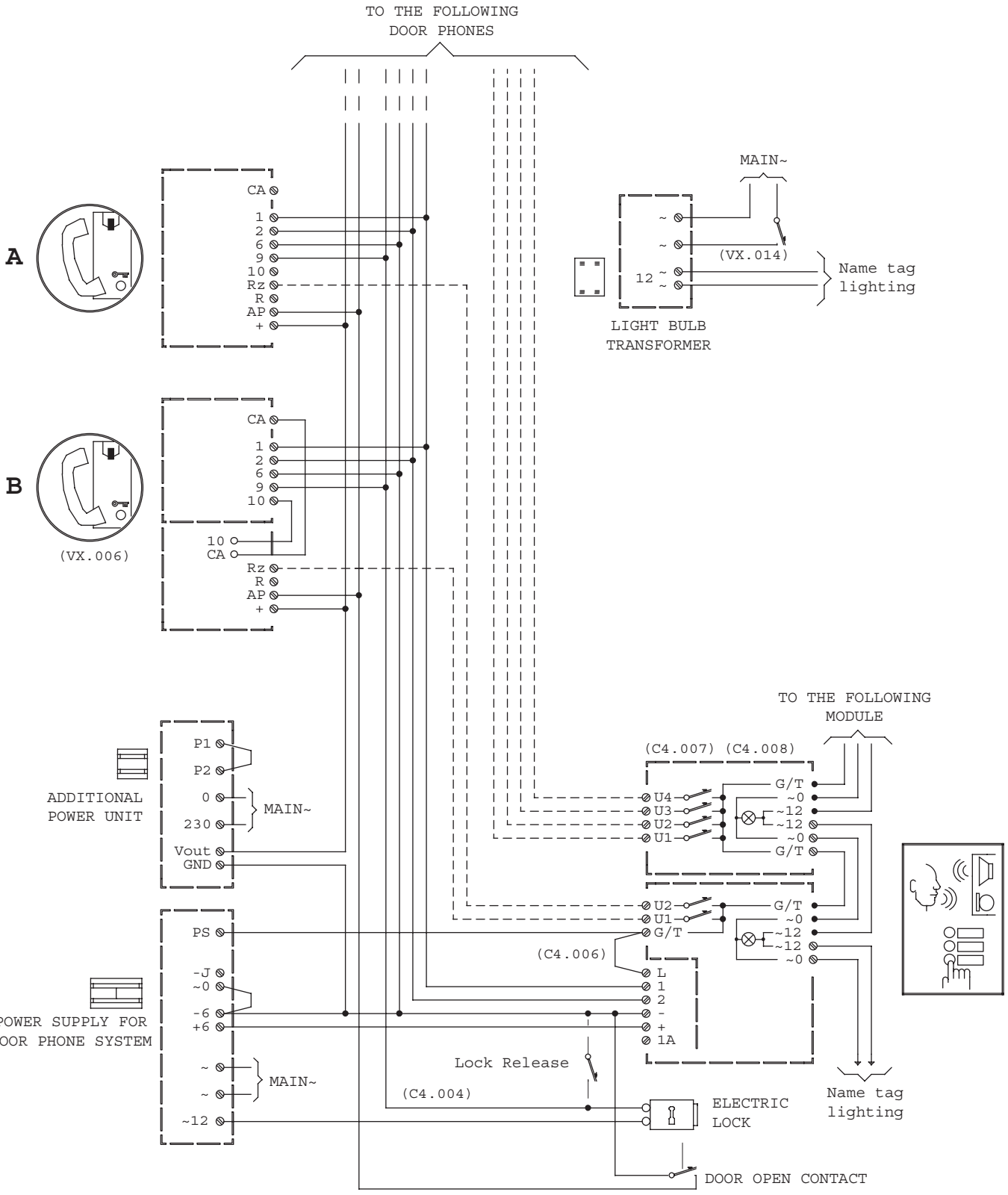
For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001 C4.004 C4.006
C4.007 C4.008
VX.006 VX.014

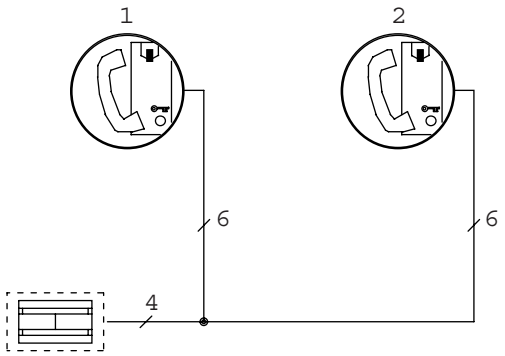
SC101-1226B


TO THE FOLLOWING
DOOR PHONES
A
CA
1
2
6
9
10
Rz
R
AP
+
B
(VX.006)
10
CA
MAIN~
~
~
(VX.014)
12 ~
~
Name tag
lighting
LIGHT BULB
TRANSFORMER
TO THE FOLLOWING
MODULE
(C4.007) (C4.008)
U4
U3
U2
U1
G/T
~0
~12
~12
~0
G/T
U2
U1
G/T
G/T
~0
~12
~12
~0
(C4.006)
L
1
2
-
+
1A
ADDITIONAL
POWER UNIT
P1
P2
0
230
MAIN~
Vout
GND
PS
-J
~0
-6
+6
POWER SUPPLY FOR
DOOR PHONE SYSTEM
~
~
MAIN~
~12
Lock Release
(C4.004)
ELECTRIC
LOCK
Name tag
lighting
DOOR OPEN CONTACT

INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES

FUNCTION

This installation allows communication between two separate places, such as: shop-warehouse, director's office - secretary's office, etc.
The calling house phones handset must be unhooked and the hook lever pressed to the bottom in order to establish the connection with the called door phone. As soon as the called door phone handset is picked up, connection is made.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0249E:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. 2	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

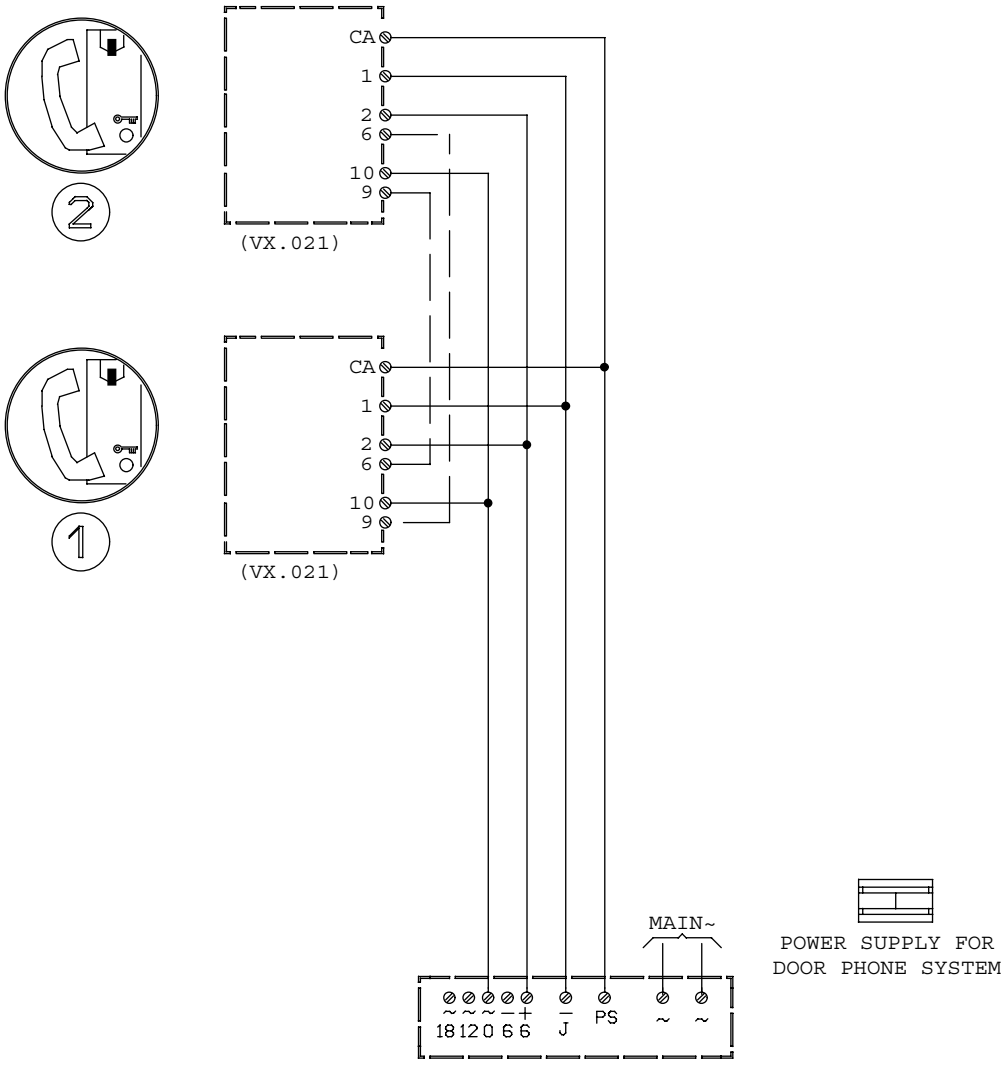
DIAGRAM NOTES

(see section 1)

C4.001

VX.021
Cut or remove the jumpers on the device(s) 6 - 10.

SC101-0249E


CA
1
2
6
10
9
(VX.021)
2
CA
1
2
6
10
9
(VX.021)
1
MAIN~
POWER SUPPLY FOR
DOOR PHONE SYSTEM
18 12 0 6 6
J
PS

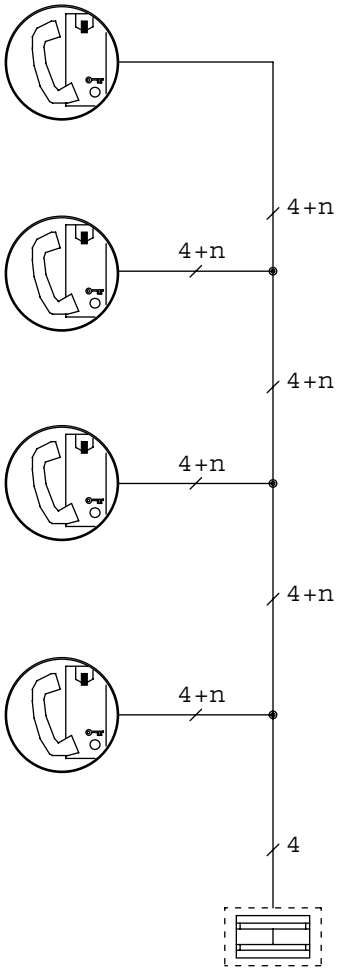
4+n

INTERCOMMUNICATING CONNECTION OF 4 DOOR PHONES

urmet DOMUS

FUNCTION

To communicate with any of the other house phones, the user must press the call key corresponding to the door phone required. On lifting the handset, the user called is automatically connected to the calling door phone.
The service is not secret, i.e. if the user of a third door phone lifts the handset while other two are talking, the conversation can be heard.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1272A:

DOOR PHONE REFERENCES

N. 4	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
N. 8	Additional buttons (packing of 8)		**Ref. 1134/55**
	or		
N. 4	Door phone Mod. Atlantico with 1 key		**Ref. 1133/1**
N. 8	Additional buttons (packing of 10)		**Ref. 1133/55**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

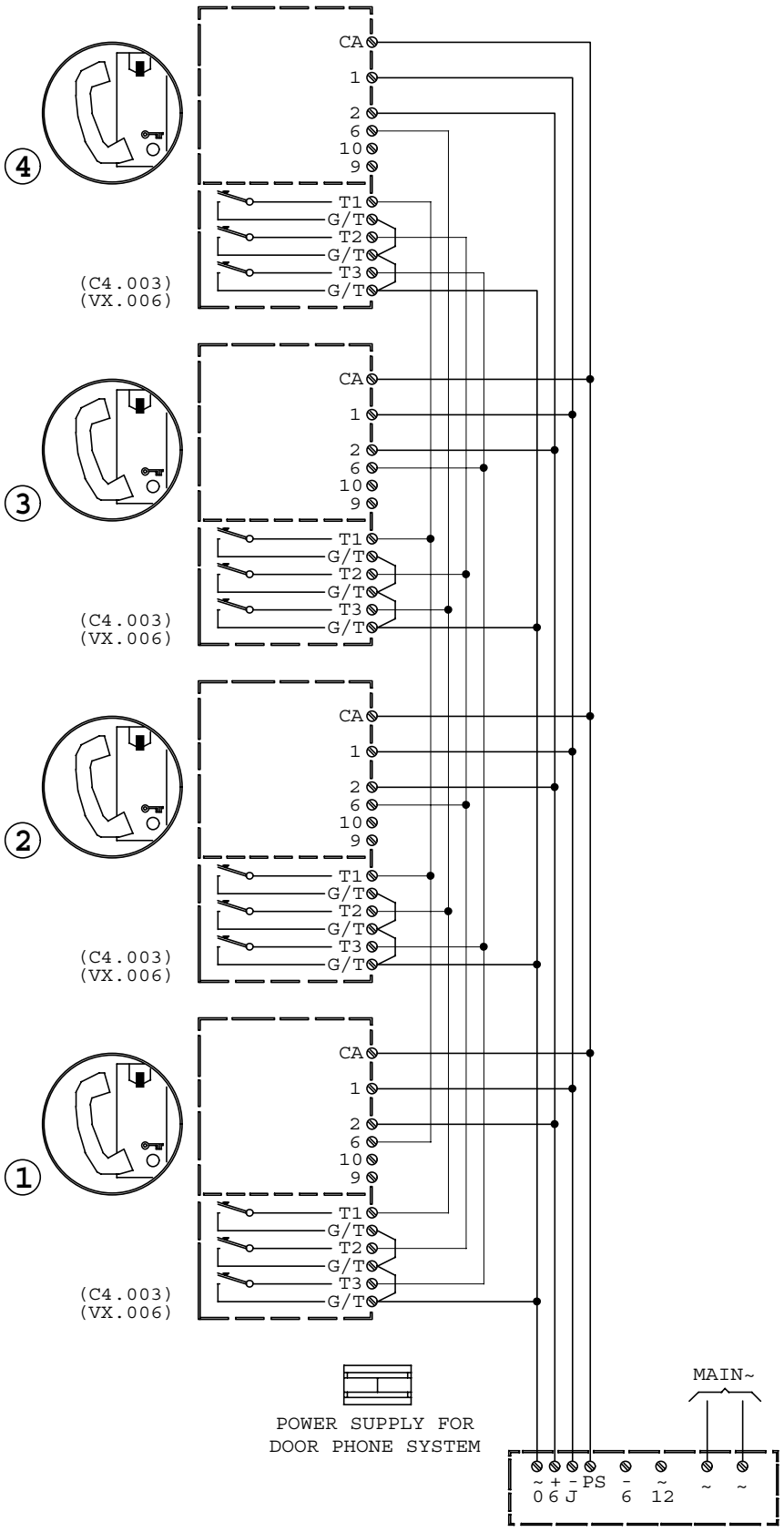
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

DIAGRAM NOTES

(see section 1)

C4.001
VX.006

SC101-1272A


4
3
2
1
CA
1
2
6
10
9
T1
G/T
T2
G/T
T3
G/T
(C4.003)
(VX.006)
POWER SUPPLY FOR
DOOR PHONE SYSTEM
MAIN~
~ + - PS - ~ ~ ~
0 6 J 6 12

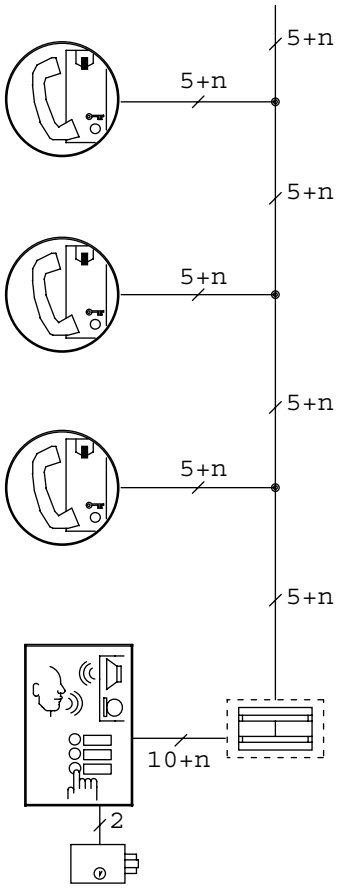
4+n

INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES

urmet DOMUS

FUNCTION

This system is made of a main centralized door phone and of shunt phones. The main door phone can call and be called by the shunt phones.
The shunt phones can only call the main phone but cannot call one another.
In order to call a shunt phone, the main one must push the corresponding key; in order to call the main phone, the shunts must press the proper key.
Using the Mod. Atlantico with 12 additional key, it is possible to call up to 13 shunt phones
.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0861D:

DOOR PHONE REFERENCES

N. 13	Door phone Mod. Atlantico with 12 additional key	**Ref. 1133/12**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

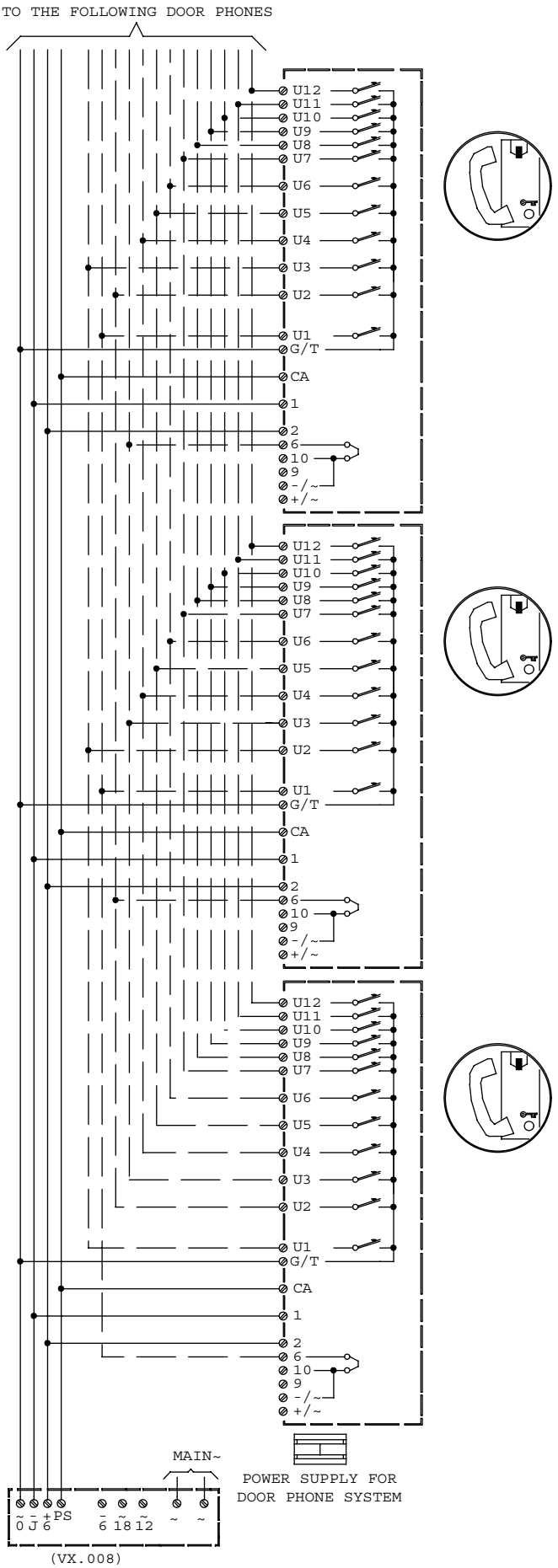
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

DIAGRAM NOTES

(see section 1)

C4.001
VX.006

SC101-0861D


TO THE FOLLOWING DOOR PHONES
U12
U11
U10
U9
U8
U7
U6
U5
U4
U3
U2
U1
G/T
CA
1
2
6
10
9
-/~
+/~
MAIN~
POWER SUPPLY FOR
DOOR PHONE SYSTEM
~ - + PS
0 J 6
- ~ ~ ~
6 18 12
~ ~
(VX.008)

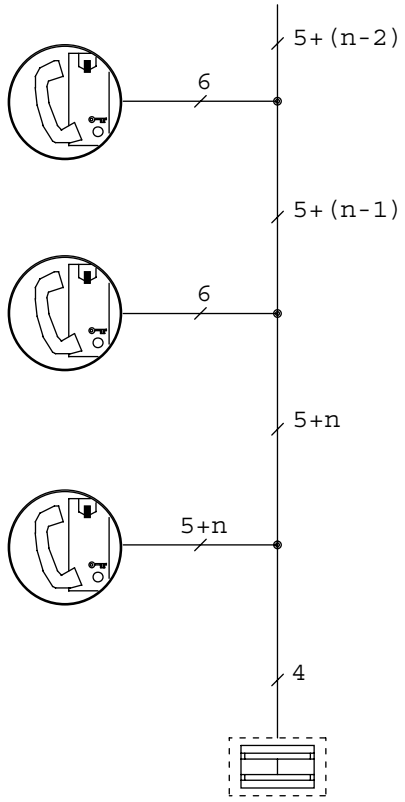
4+n

CONNECTION OF 1 MAIN DOOR PHONE TO 12 SHUNT DOOR PHONES MAXIMUM

urmet DOMUS

FUNCTION

This system is made of a main centralized door phone and of shunt phones. The main door phone can call and be called by the shunt phones.
The shunt phones can only call the main phone but cannot call one another.
In order to call a shunt phone, the main one must push the corresponding key; in order to call the main phone, the shunts must press the proper key.
Using the Mod. Atlantico Atlantico with 12 additional key, it is possible to call up to 12 shunt phones
.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0863E:

DOOR PHONE REFERENCES

MAIN DOOR PHONE REFERENCES

N. 1	Door phone Mod. Atlantico with 12 additional key	**Ref. 1133/12**

SHUNT DOOR PHONES REFERENCES

N. 7	Door phone Mod. Atlantico	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

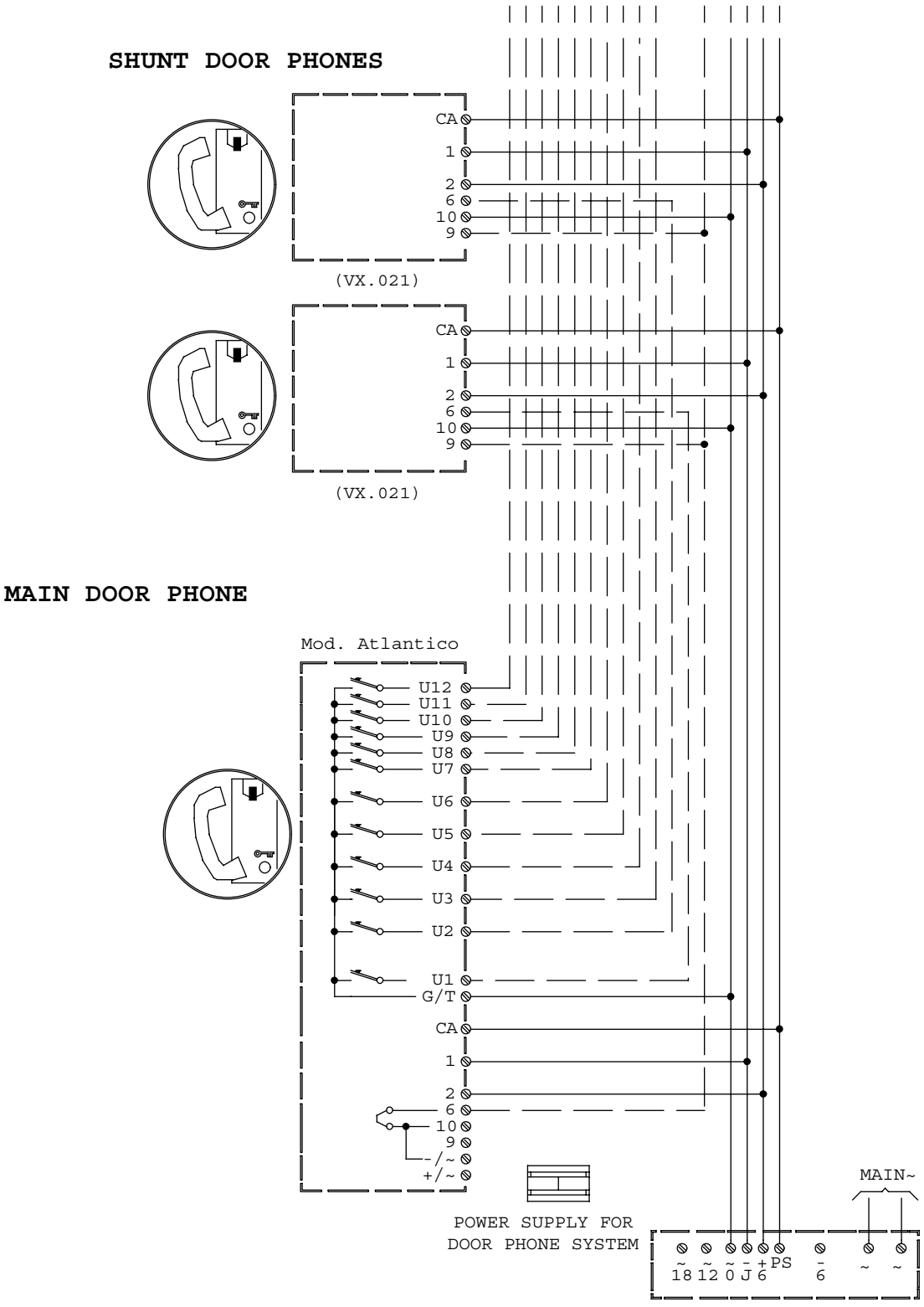
DIAGRAM NOTES

(see section 1)

C4.001
VX.006

VX.021
Cut or remove the jumpers on the device(s) 6 - 10.

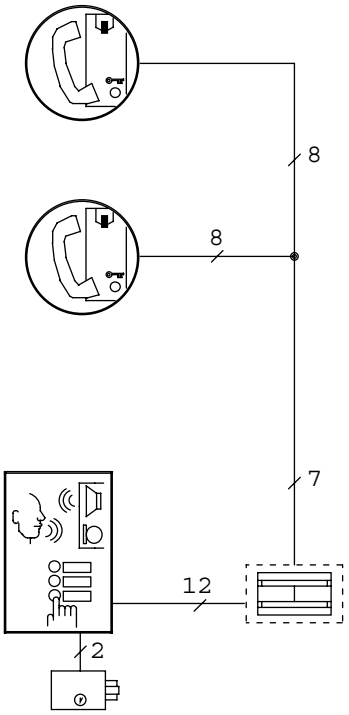
SC101-0863E


SHUNT DOOR PHONES
CA
1
2
6
10
9
(VX.021)
CA
1
2
6
10
9
(VX.021)
MAIN DOOR PHONE
Mod. Atlantico
U12
U11
U10
U9
U8
U7
U6
U5
U4
U3
U2
U1
G/T
CA
1
2
6
10
9
-/~
+/~
POWER SUPPLY FOR
DOOR PHONE SYSTEM
MAIN~
~ ~ ~ - + PS - ~ ~
18 12 0 J 6 6

INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Single calls from outdoor station

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to external calls.
Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
Calls from the door unit are sent to the door phone speaker while calls from the other door phone are sent to the additional electronic buzzer.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1243B:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	**Ref. 786/15**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with door unit set-up	**Ref. 1145/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with door unit	**Ref. 1155/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 2 buttons	**Ref. 725/102**
N. 1	Amplified door unit	**Ref. 1128/500**

For the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. 2	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001 C4.004

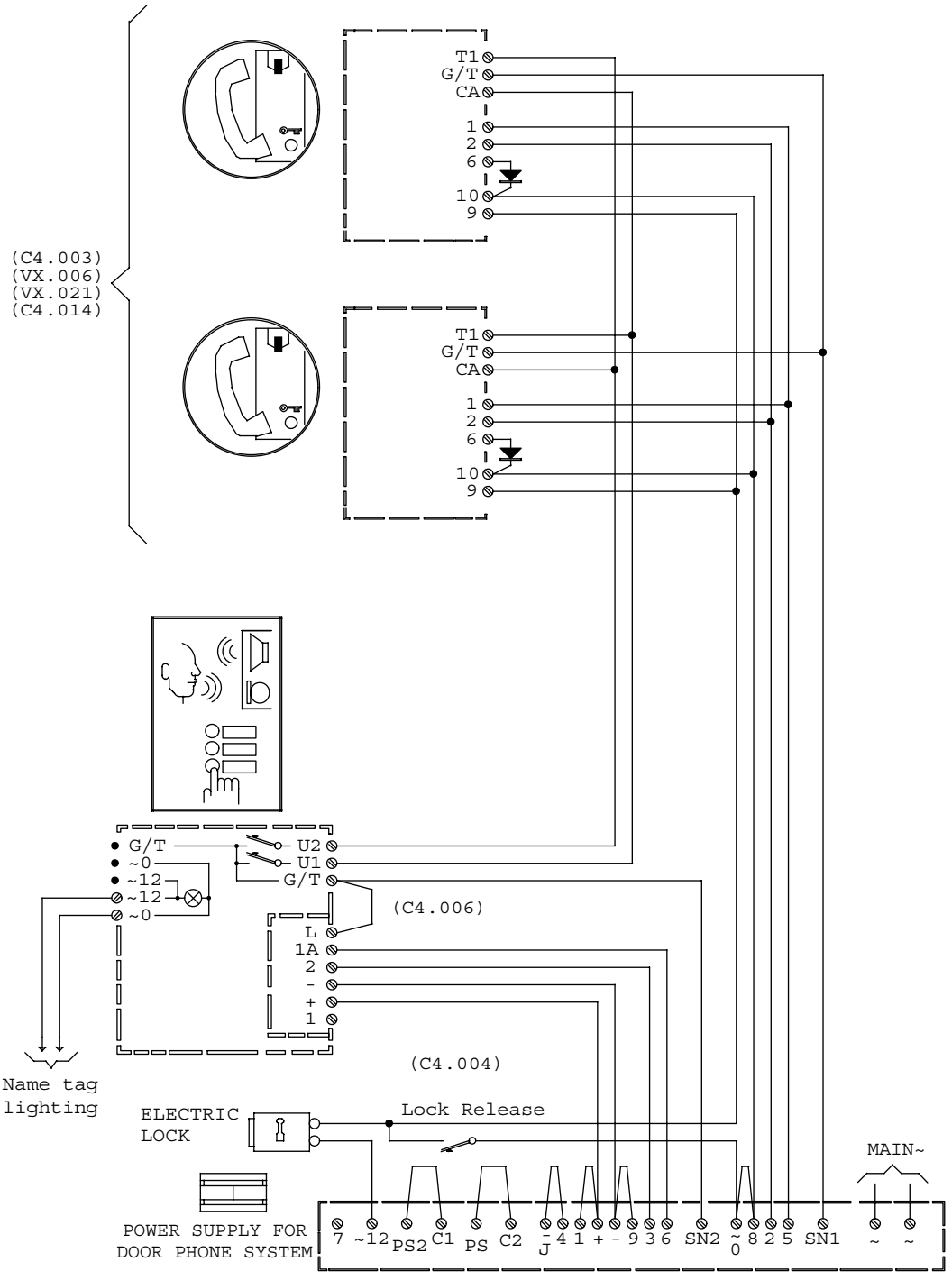
C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.014 VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 - 10.

INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Single calls from outdoor station

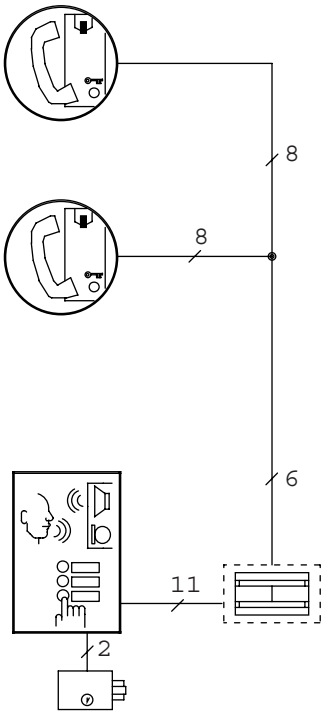
SC101-1243B



INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Parallel calls from outdoor station
Differentiated calls

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to calls external calls.
Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
From the push button panel, all the house phones are called in parallel with a single call key.
Door phone calls ring the supplementary buzzer.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0578G:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**
N. 2	Extra electronic buzzers	**Ref. 9854/52**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system with relay	**Ref. 786/15**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with door unit set-up	**Ref. 1145/21**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with door unit	**Ref. 1155/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 1 button	**Ref. 725/101**
N. 1	Amplified door unit	**Ref. 1128/500**

For the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. 1	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

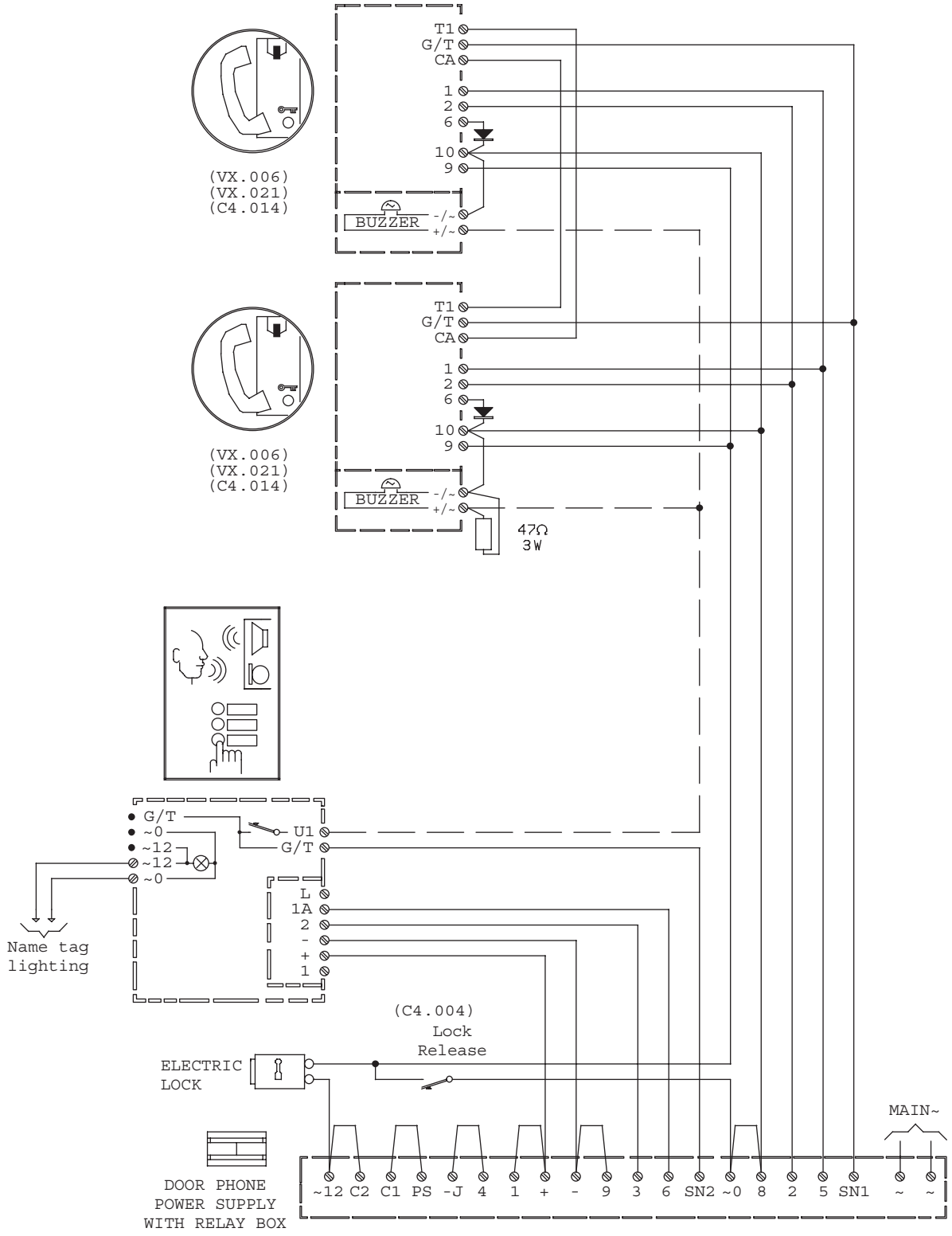
(see section 1)

C4.001
C4.004
C4.014
VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Parallel calls from outdoor station
Differentiated calls

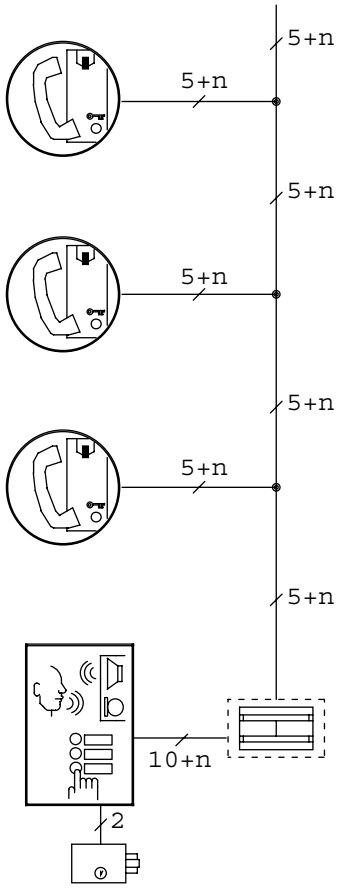
SC101-0578G



INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Single calls from outdoor station
Differentiated calls

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to external calls.
Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
The various device may be called individually from the panel.
Using the Mod. Atlantico with 12 additional key, it is possible to call up to 13 shunt phones.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0839D:

DOOR PHONE REFERENCES

N. 13	Door phone Mod. Atlantico with 12 additional key “A”	**Ref. 1133/12**
N. X	Diodes (packing of 10)	**Ref. 1131/4**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	**Ref. 786/15**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 4	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

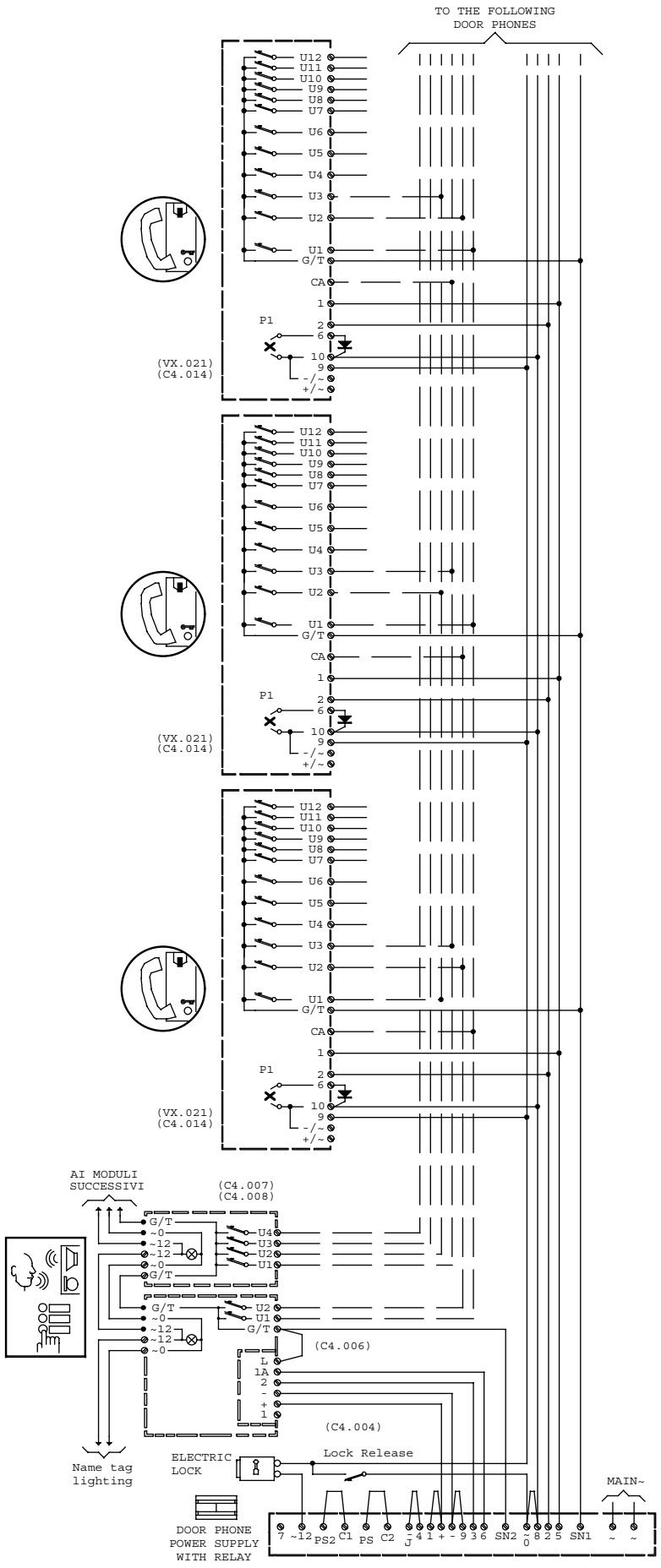
(see section 1)

C4.001 C4.004 C4.014 VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 – 10 (P1).

INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 1 OUTDOOR STATION
Single calls from outdoor station
Differentiated calls

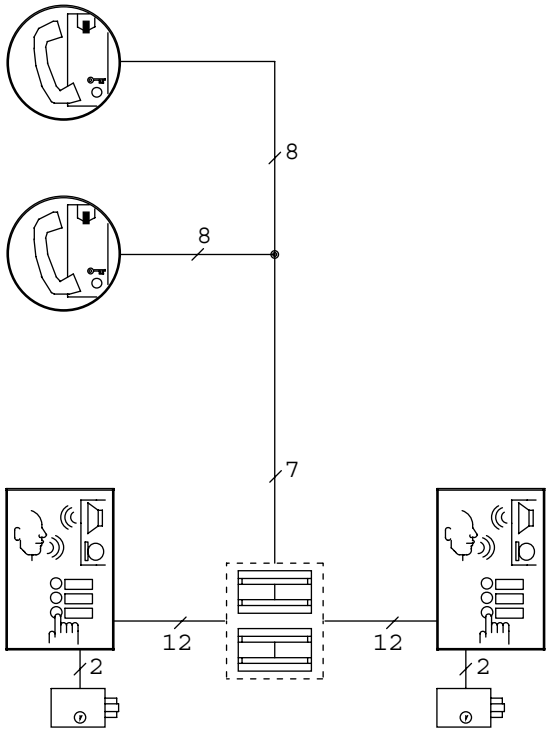
SC101-0839D



INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATION
Single calls from outdoor station

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to calls from the external push-button panel. Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply and a separate switching relay.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1249A:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**
N. 2	Extra electronic buzzers	**Ref. 9854/52**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	**Ref. 786/15**
N. 1	Relay box	**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 2	Module with door unit set-up	**Ref. 1145/22**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 2	Module with door unit	**Ref. 1155/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with 2 buttons	**Ref. 725/102**
N. 2	Amplified door unit	**Ref. 1128/500**

For the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. 4	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001

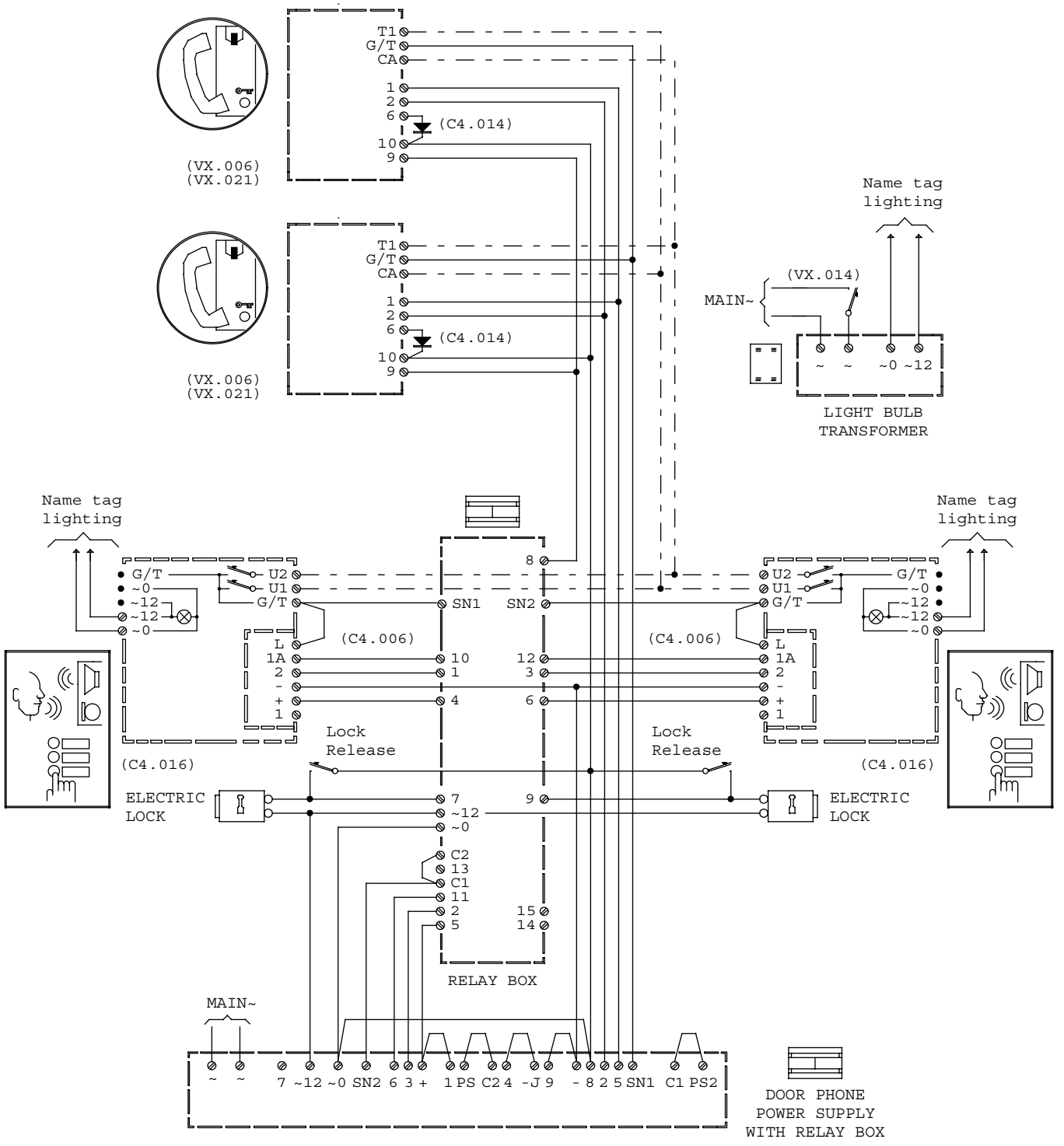
C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.014 C4.016 VX.006 VX.014

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATION
Single calls from outdoor station

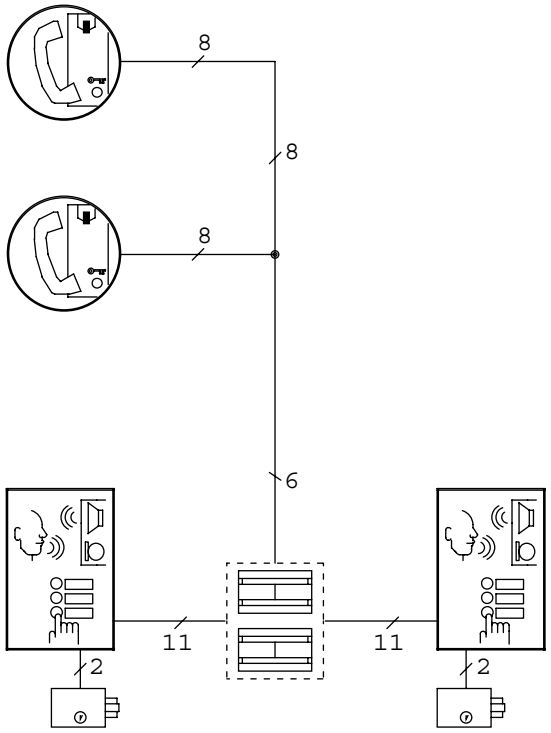
SC101-1249A



INTERCOMMUNICATING CONNECTION OF 2 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATION
Parallel calls from outdoor station

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to calls from the external push-button panel. Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply and a separate switching relay.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
From the push button panel, all the house phones are called in parallel with a single call key.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1244A:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**
N. 2	Extra electronic buzzers	**Ref. 9854/52**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system with relay	**Ref. 786/15**
N. 1	Relay box	**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 2	Module with door unit set-up	**Ref. 1145/21**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 2	Module with door unit	**Ref. 1155/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with 1 button	**Ref. 725/101**
N. 2	Amplified door unit	**Ref. 1128/500**

For the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. 2	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

SC101-1244A

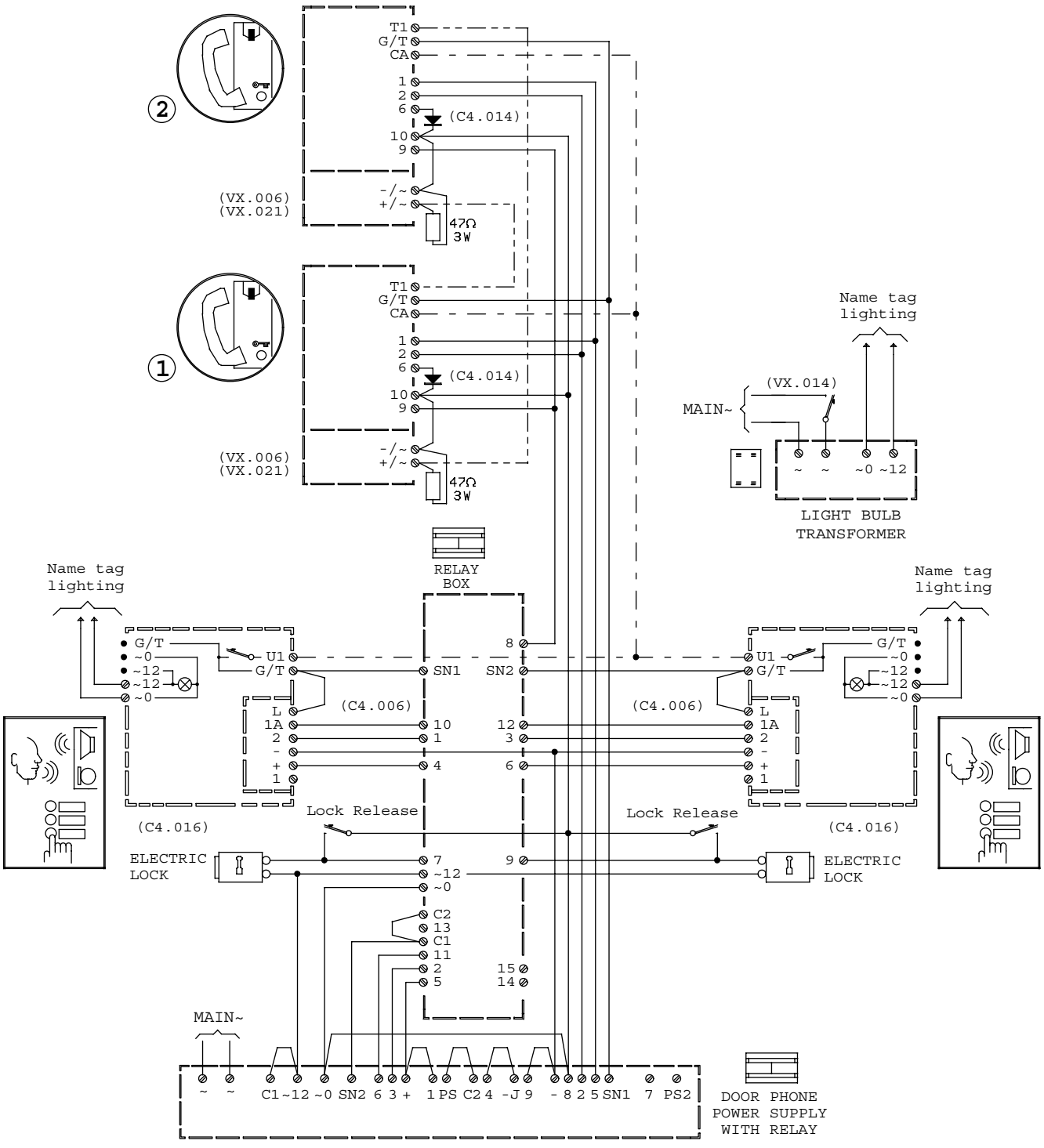


DIAGRAM NOTES

(see section 1)
C4.001

C4.006
Sinthesi models only:
Connect jumper L with G/T.

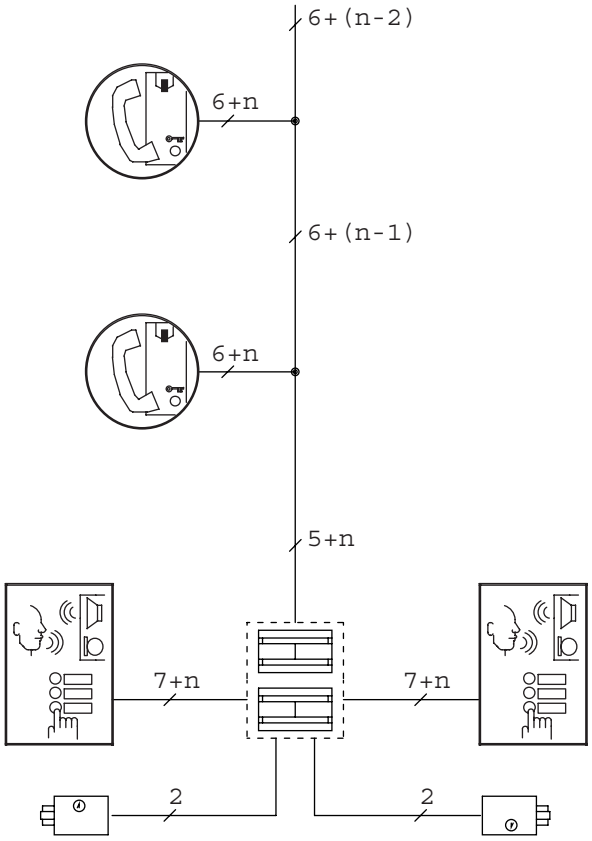
C4.014 C4.016 VX.006 VX.014

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATIONS
Single calls from the push button panels

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to calls from 2 external push button panels.
Switching from one service to another is automatic and takes place during the call by means of a separate switching relay.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
Using the Mod. Atlantico with 12 additional key, it is possible to call up to 13 shunt phones
.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0844E:

DOOR PHONE REFERENCES

N. 13 Door phone Mod. Atlantico with 12 additional key "A" **Ref. 1133/12**

POWER SUPPLY AND RELAY REFERENCES

N. 1 Power supply for door phone system 28VA **Ref. 786/11**
N. 1 Relay box **Ref. 788/58**

OUTDOOR STATION REFERENCES

Sinthesi model
N. X Button modules **Ref. 1145/11-/12-/13-/14**
N. 2 Module with door unit set-up **Ref. 1145/20-/21-/22**
N. 2 Amplified door unit **Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model
N. X Button modules **Ref. 1155/11-/12A-/13A-/14A**
N. 2 Module with door unit **Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model
N. 2 Panel with N buttons **Mod. 725**
N. 2 Amplified door unit **Ref. 1128/500**

For the panels references and the accessories refer to "Panels with anodized Aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model
N. 2 Front case for door unit **Ref. 1128/20-/21**
N. 2 Door unit **Ref. 1128/500**
N. X Front case **Ref. 1128/10-/11**
N. X Button **Ref. 1128/1-/2**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001
C4.014
VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 – 10 (P1).

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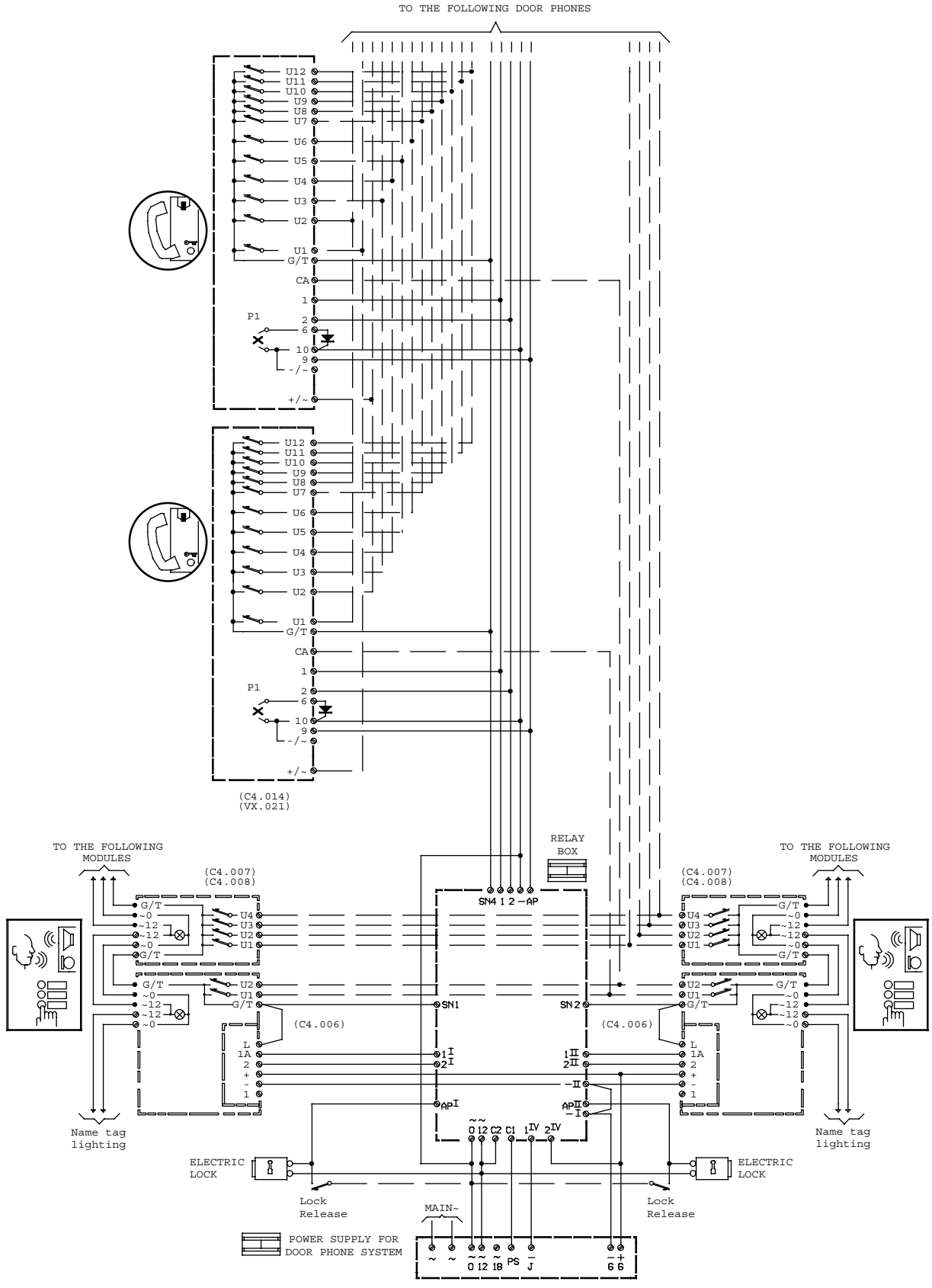
INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATIONS

Single calls from the push button panels

4+n

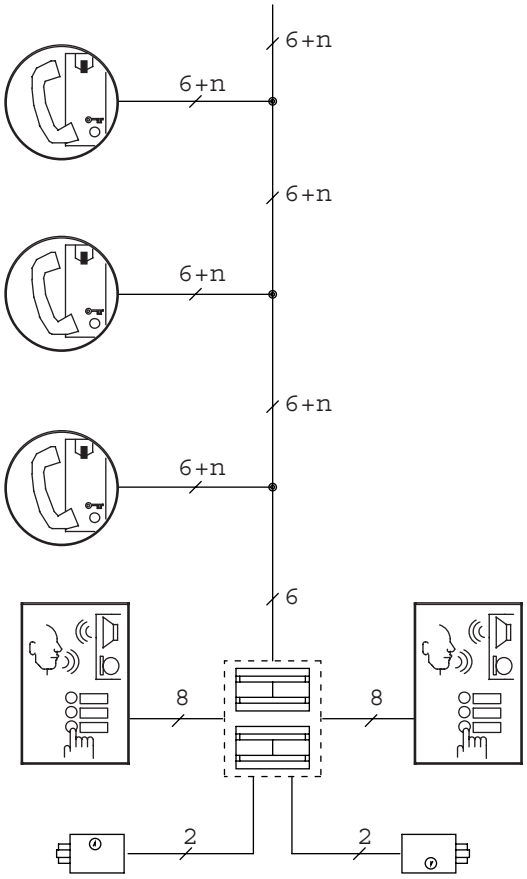
SC101-0844E



INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATIONS
Parallel calls from the push button panels

FUNCTION

The house phones carry out the intercom service and can, at the same times, reply to calls from 2 external push button panels.
Switching from one service to another is automatic and takes place during the call by means of a separate switching relay.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
From the push button panel, all the house phones are called in parallel with a single call key.
Using the Mod. Atlantico with 12 additional key, it is possible to call up to 13 shunt phones
.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0866G:

DOOR PHONE REFERENCES

DOOR PHONE "A"

N. 13	Door phone Mod. Atlantico with 12 additional key	**Ref. 1133/12**

POWER SUPPLY AND RELAY REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box		**Ref. 788/58**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 2	Module with door unit set-up	**Ref. 1145/21**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 2	Module with door unit	**Ref. 1155/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with 1 button	**Ref. 725/101**
N. 2	Amplified door unit	**Ref. 1128/500**

For the accessories refer to "Panels with anodized aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. 2	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001
C4.014
VX.006

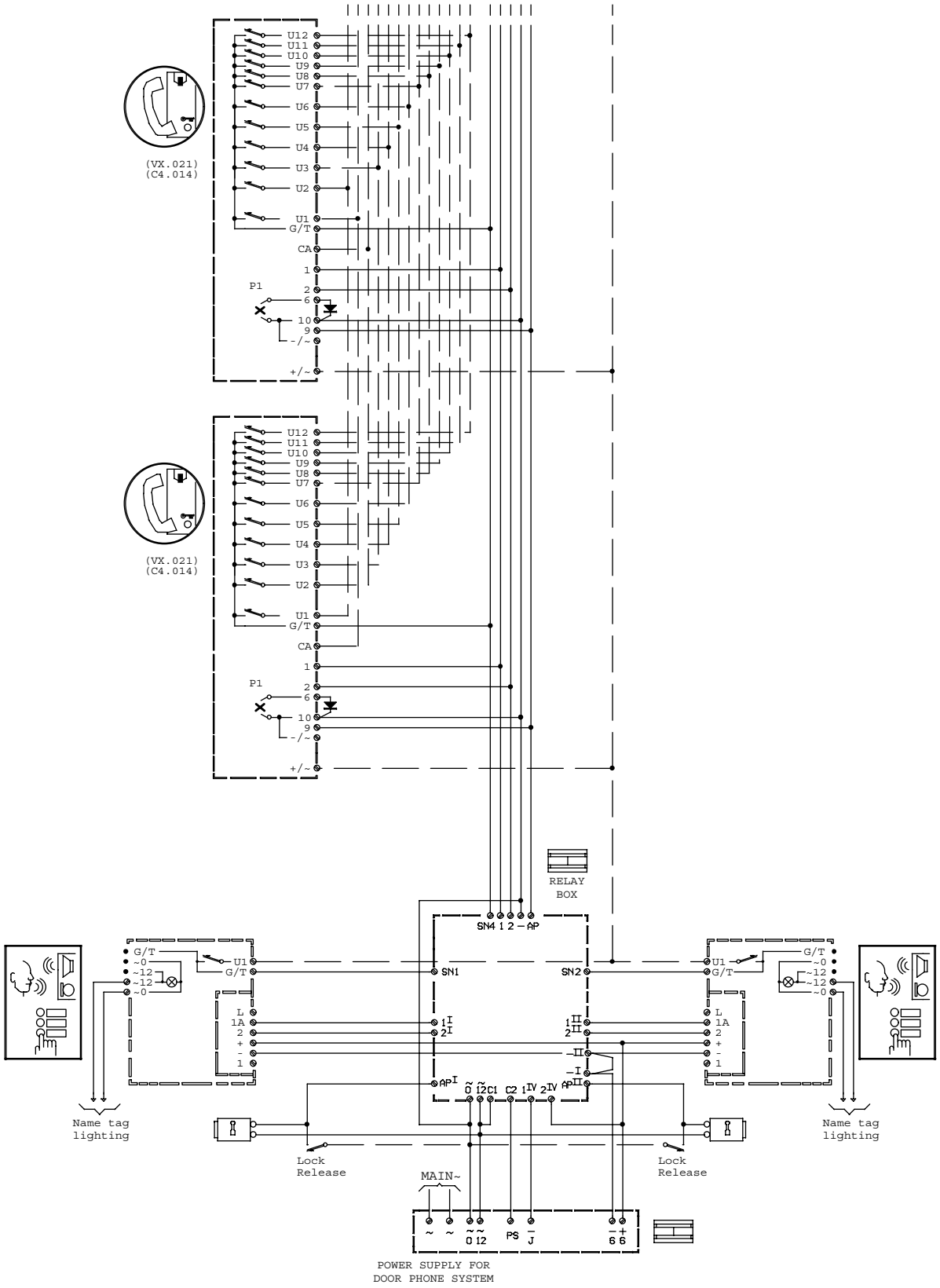
VX.021
Cut or remove the jumpers on the device(s): 6 – 10 (P1).

INTERCOMMUNICATING CONNECTION OF MAXIMUM 13 DOOR PHONES WITH THE POSSIBILITY OF REPLY TO 2 OUTDOOR STATIONS

Parallel calls from the push button panels

4+n

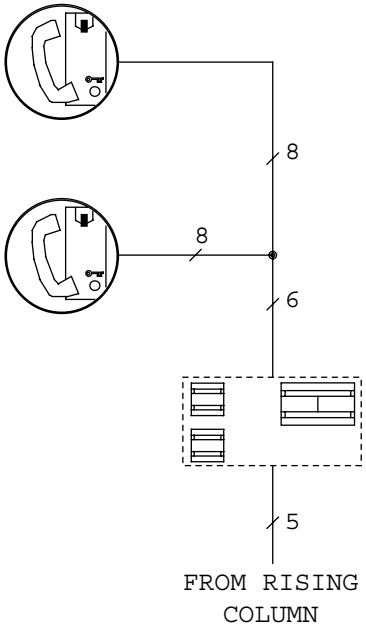
SC101-0866G



CONNECTION OF TWO INTERCOMMUNICATING DOOR PHONE EXTENSIONS TO A SYSTEM WITH DOOR UNIT
Parallel calls from door unit
Differentiated calls

FUNCTION

The connection example shown in the following diagram offers the possibility of adding intercom door phones in the same apartment to an existing system with door unit.
The house phones carry out the intercom service and can, at the same times, reply to calls external calls.
Switching from one service to another is automatic and takes place during the call by means of a reply incorporated in the power supply.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
The door unit call is sent to the supplementary electronic buzzer.
The call between two door phones is sent to the speaker of both door phones.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0567E:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**
N. 2	Extra electronic buzzers	**Ref. 9854/52**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system with relay	**Ref. 786/11**
N. 1	Relay box “A”	**Ref. 788/52**
N. 1	Relay box “B”	**Ref. 788/51**

DIAGRAM NOTES

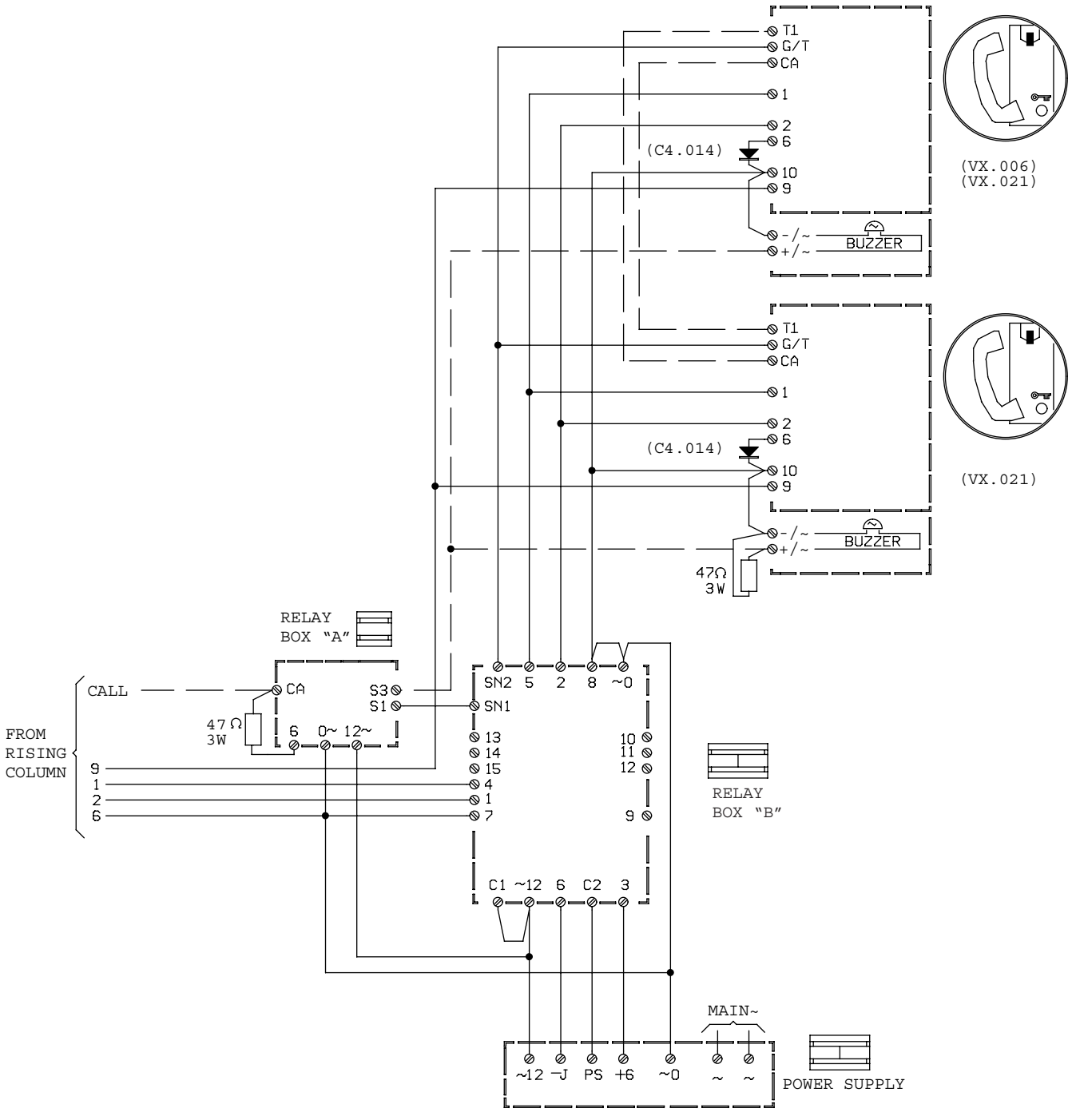
(see section 1)

C4.001
C4.014
VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

CONNECTION OF TWO INTERCOMMUNICATING DOOR PHONE EXTENSIONS TO A SYSTEM WITH DOOR UNIT
Parallel calls from door unit
Differentiated calls

SC101-0567E

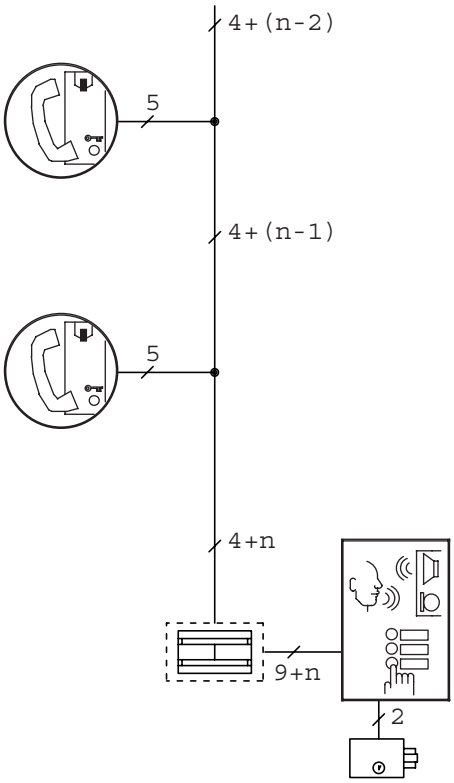


CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION
Secrecy of conversation

FUNCTION

To assure the secrecy of conversation to all the house phones of the door phone system, a device (Ref. 1131/5 for Scaitel door phones or Ref. 1134/5 for Utopia door phones) shall be inserted in each door phone and a switch-off device Ref. 5330/60 in the push button panel.
So, all the house phones will be cut off from any conversation (nothing can be heard when unhooking the handset); only the called door phone can start a conversation with the caller, no other being able to intercept the call.
The door phone is activated to communicate from the call up to the following call. If it is not direct to the same set the call release the door phone from the connection with the loudspeaking unit.
The secrecy device offers two possibilities of electric lock opening:

- NORMAL OPENING (**solution A**): which takes place each time the hook lever of any door phone is pressed to the bottom;
- ACTIVATED OPENING (**solution B**): the electric lock can be activated only after a call, and only from the called door phone (in this case, remove the jumper from the door phone printed circuit).



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1134E:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
N. X	Secrecy device		**Ref. 1131/5**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Door unit	**Ref. 1145/500**
N. 1	Switch off privacy device	**Ref. 5330/60**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. 1	Switch off privacy device	**Ref. 1155/75**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Switch off privacy device	**Ref. 5330/60**

For the panels references and the accessories refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

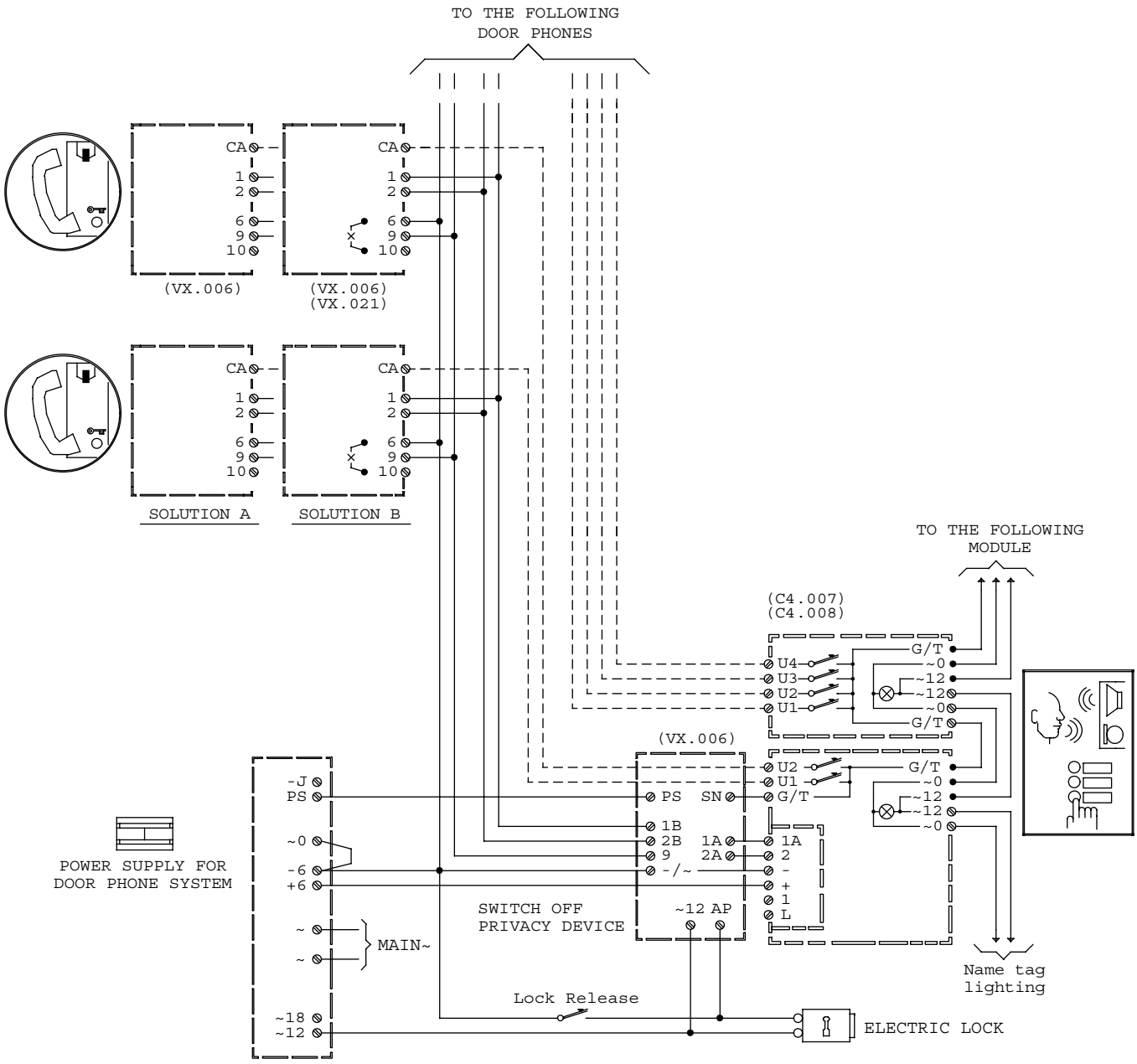
(see section 1)

C4.001 C4.007 C4.008
VX.006 VX.013

VX.021
Cut or remove the jumpers on the device(s) (solution B only):
P1 (Utopia)

VX.028

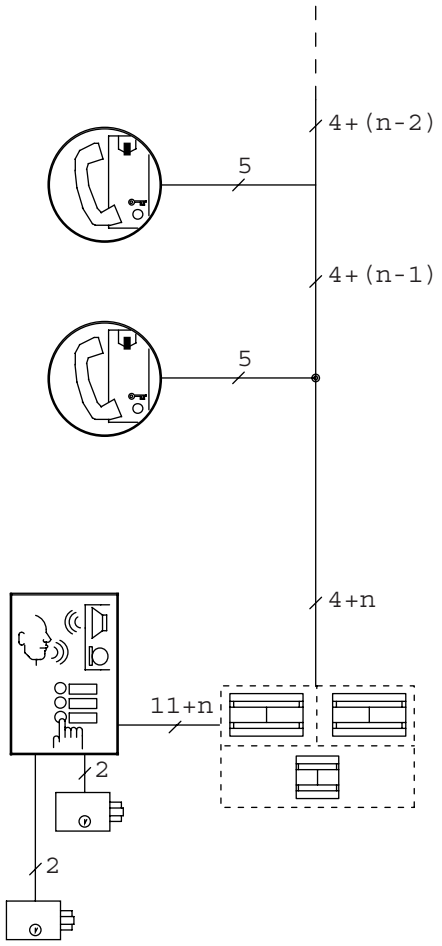
SC101-1134E


TO THE FOLLOWING
DOOR PHONES
CA
1
2
6
9
10
(VX.006)
(VX.006)
(VX.021)
SOLUTION A
SOLUTION B
TO THE FOLLOWING
MODULE
(C4.007)
(C4.008)
U4
U3
U2
U1
G/T
~0
~12
(VX.006)
PS
SN
1B
2B
9
1A
2A
-/~
-J
-6
+6
~
MAIN~
~18
~12
POWER SUPPLY FOR
DOOR PHONE SYSTEM
SWITCH OFF
PRIVACY DEVICE
~12 AP
Lock Release
ELECTRIC LOCK
Name tag
lighting

CONNECTION OF SEVERAL DOOR PHONES TO 1 DOOR UNIT
Simultaneous opening of two electrical locks

FUNCTION

Pressing one of the external panel buttons, the bitonal electronic call is sent to the correspondent door phone loudspeaker. When the called door phone handset is unhooked, contact is established and conversation may take place. Simply press the corresponding button to release the two electrical door locks.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0482D:

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	Grey colour	**Ref. 1134/1**
	or		
N. X	Door phone Mod. Atlantico	White colour	**Ref. 1133**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box “A”		**Ref. 788/52**
N. 1	Transformer 12Vac 30VA		**NNF**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

NNF= not supplied by us.

SC101-0482D

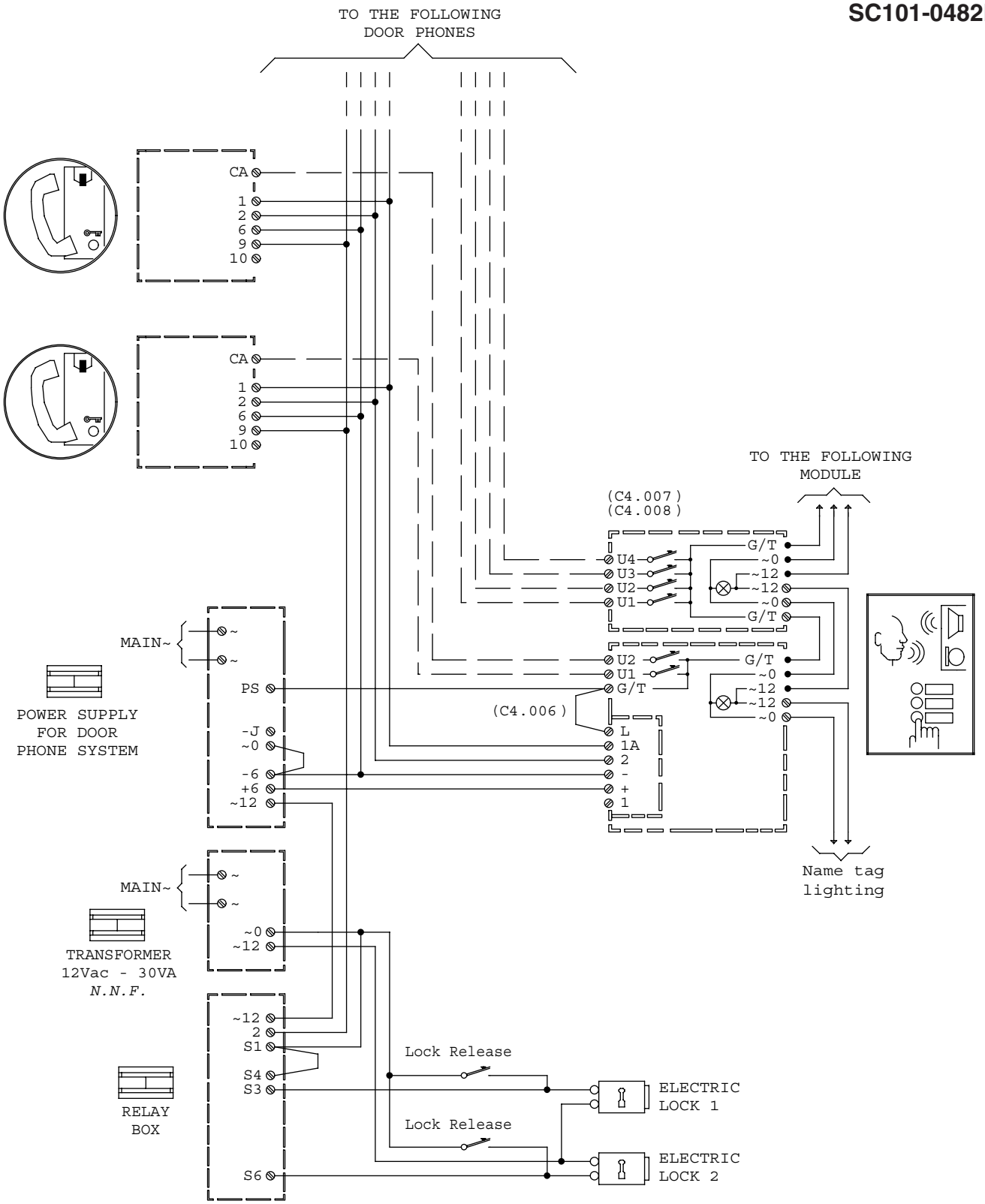


DIAGRAM NOTES

(see section 1)

C4.001 C4.004

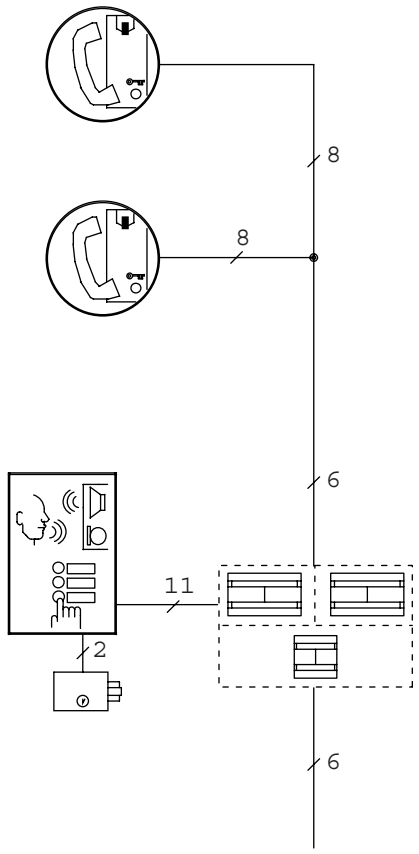
C4.006
Sinthesi models only:
Connect jumper L with G/T.

C4.007 C4.008

CONNECTION OF TWO INTERCOM DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM ONE SECONDARY DOOR UNIT EXTENSION OF AN ELECTRICAL DOOR UNIT SYSTEM
Parallel calls from outdoor station
Differentiated calls

FUNCTION

The door phones have intercom features and may at the same time take calls from both the secondary panel and door phone system to which they are connected.
Switching from one service to another is automatic and takes place during the call by means of reply.
When the intercom service is active, nothing can be heard on the outdoor station and vice versa.
La chiamata tra i citofoni è inviata all'altoparlante dei citofoni.
La chiamata dal portiere elettrico è inviata sul ronzatore elettronico supplementare (Buzzer) di entrambe i citofoni.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0735D:

DOOR PHONE REFERENCES

N. 2	Door phone Mod. Utopia with 1 key	**Ref. 1134/1**
	or	
N. 2	Door phone Mod. Atlantico with 1 key	**Ref. 1133/1**
N. 2	Diodes (packing of 10)	**Ref. 1131/4**
N. 2	Extra electronic buzzers	**Ref. 9854/52**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system with relay	**Ref. 786/11**
N. 1	Relay box "1"	**Ref. 788/58**
N. 1	Relay box "2"	**Ref. 788/52**

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with door unit set-up	**Ref. 1145/21**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with door unit	**Ref. 1155/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 1 button	**Ref. 725/101**
N. 1	Amplified door unit	**Ref. 1128/500**

For the accessories refer to "Panels with anodized aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. 1	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001
C4.004
C4.014
VX.006

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

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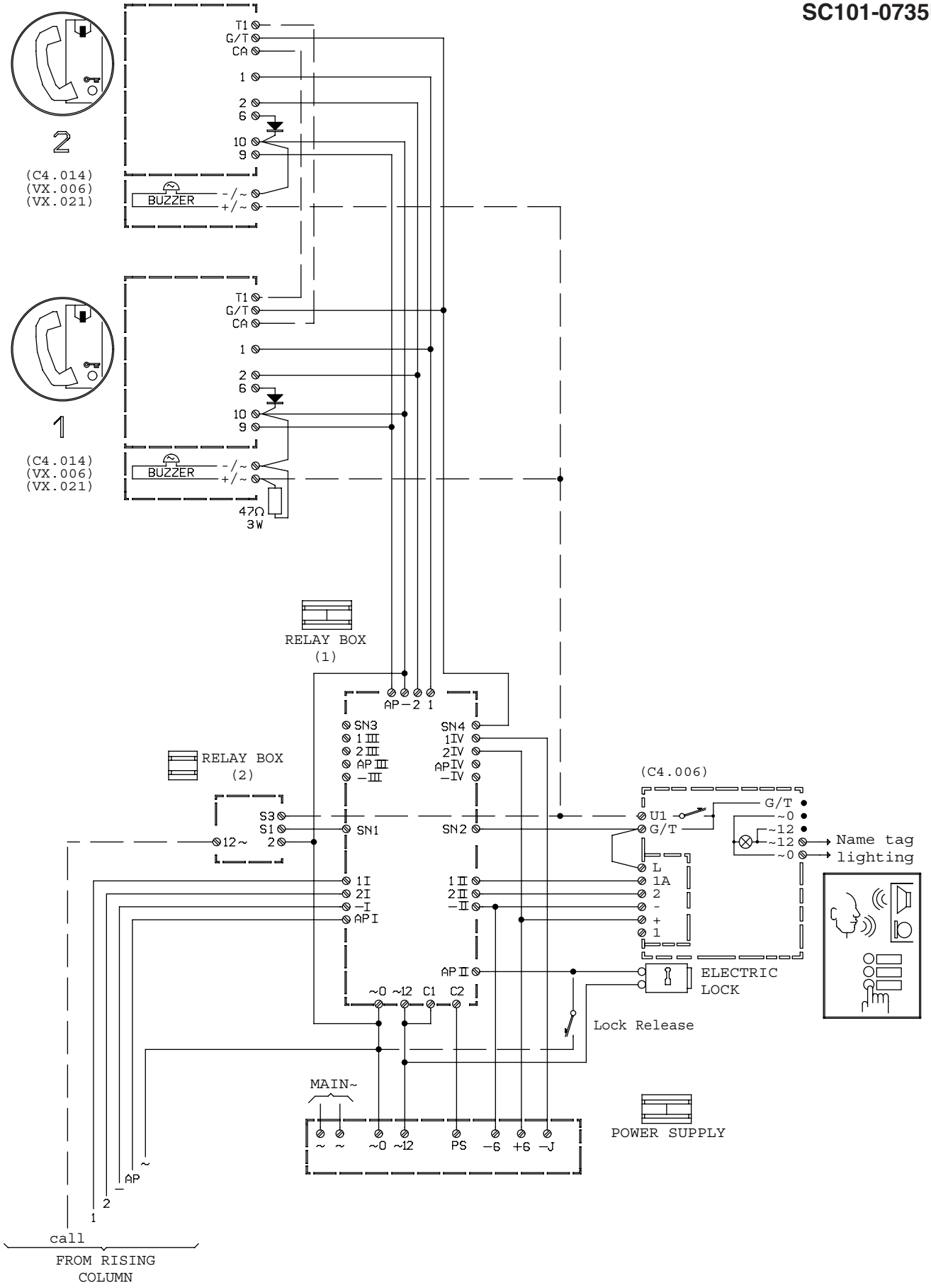
CONNECTION OF TWO INTERCOM DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM ONE SECONDARY DOOR UNIT EXTENSION OF AN ELECTRICAL DOOR UNIT SYSTEM

Parallel calls from outdoor station
Differentiated calls

4+n

SC101-0735D



BASIC DIAGRAMS FOR 1+1 WIRE ELECTRONIC DOOR PHONE SYSTEMS

Download from:
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Technical Manuals area

1+1

SECTION 1B CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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BASIC DIAGRAMS FOR 1+1 WIRE ELECTRONIC DOOR PHONE SYSTEMS

	Diagram	Sec.	Pag.
CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)	SC101-1135F	1b	**2**
CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)	SC101-0932C	1b	**4**
CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)	SC101-1210B	1b	**6**
CONNECTION OF SEVERAL DOOR PHONES TO TWO OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)	SC101-0937B	1b	**8**
CONNECTION OF SEVERAL DOOR PHONES TO FOUR OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)	SC101-1218C	1b	**10**
CONNECTION OF SEVERAL COLUMN OF DOOR PHONES TO COMMON OUTDOOR STATIONS Each group in also connected to its own secondary outdoor station (Panels Mod. Sinthesi or K-Steel)	SC101-1241B	1b	**12**
CONNECTION OF 1 DOOR PHONES TO 1 OUTDOOR STATION Door phone can open door during call from panel	SC101-1327	1b	**14**
RELEASE OF TWO ELECTRICAL LOCKS AT THE SAME TIME a) 725 or Domus Aura door unit b) Sinthesi or K-Steel door unit	SC101-1269A	1b	**16**

1 + 1 DOOR PHONE SYSTEM DIAGRAM CROSS-REFERENCE TABLE

LIST OF AVAILABLE FUNCTIONS							
Panel model							
	Number of main panels to be installed						
		Number of secondary panels to be installed					
			Connection of a supplementary electrical lock				
				Possibility of opening door while calling from the panel			
					DIAGRAM DESCRIPTION	**DIAGRAM**	**PAG**
Sinthesi or K-Steel	**1**	**0**			CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION	SC101-1135F	2
	1	**K**			CONNECTION OF SEVERAL COLUMN OF DOOR PHONES TO COMMON OUTDOOR STATIONS Each group in also connected to its own secondary outdoor station	SC101-1241B	12
	2	**0**			CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS WITH SECRECY OF CONVERSATION	SC101-1210B	6
	4	**0**			CONNECTION OF SEVERAL DOOR PHONES TO FOUR OUTDOOR STATIONS WITH SECRECY OF CONVERSATION	SC101-1218C	10
725 or Domus Aura	**1**	**0**			CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION	SC101-0932C	4
	2	**0**			CONNECTION OF SEVERAL DOOR PHONES TO TWO OUTDOOR STATIONS WITH SECRECY OF CONVERSATION	SC101-0937B	8
Generic	**--**	**--**	√		RELEASE OF TWO ELECTRICAL LOCKS AT THE SAME TIME a) 725 or Domus Aura door unit b) Sinthesi or K-Steel door unit	SC101-1269A	16
	--	**--**		√	CONNECTION OF 1 DOOR PHONES TO 1 OUTDOOR STATION Door phone can open door during call from panel	SC101-1327	14

K = number of columns with panel

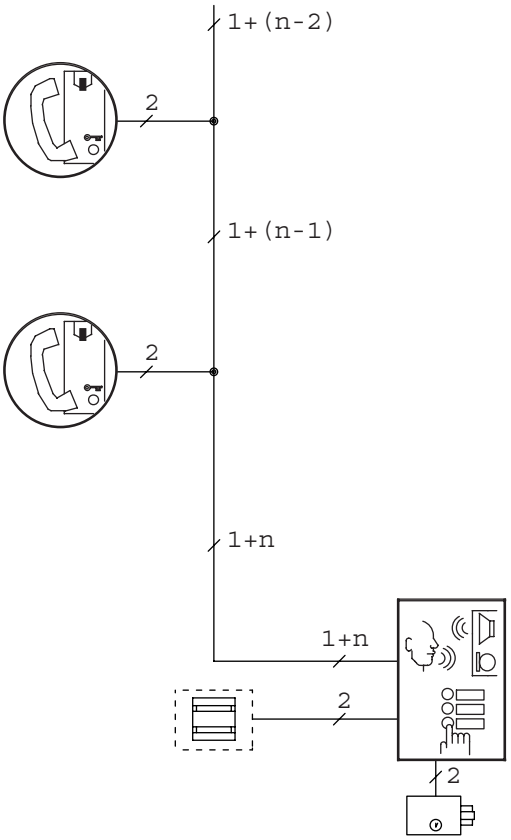
1+1

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

urmet DOMUS

FUNCTION

1+1 wire system allows to obtain the service of a standard outdoor set installation with conversation, call, electric lock opening, with only 2 wires in the rising column: 1 common + 1 single for each door phone.
The outdoor set is fed, with two wires only, by a 12V a.c. voltage transformer.
To assure secrecy to all the door phones, special devices for secrecy of conversation are inserted into the push button panel (one for each key).
So, all the door phones will be cut off from any conversation (nothing can be heard when picking up the handset); only the called door phone can start a conversation with the caller, no other being able to intercept the call.
The called house is qualified to talk until another call is made from the push button panel to other door phone.
The electric lock opening depends from the circuit of secrecy of conversation (the lock cannot be operated unless the door phone has been called).



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1135F:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. 1	Transformer	**Ref. 9000/230**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21**
N. 1	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C1.002

C4.006
Sinthesi models only:
Connect jumper C1 with U1.

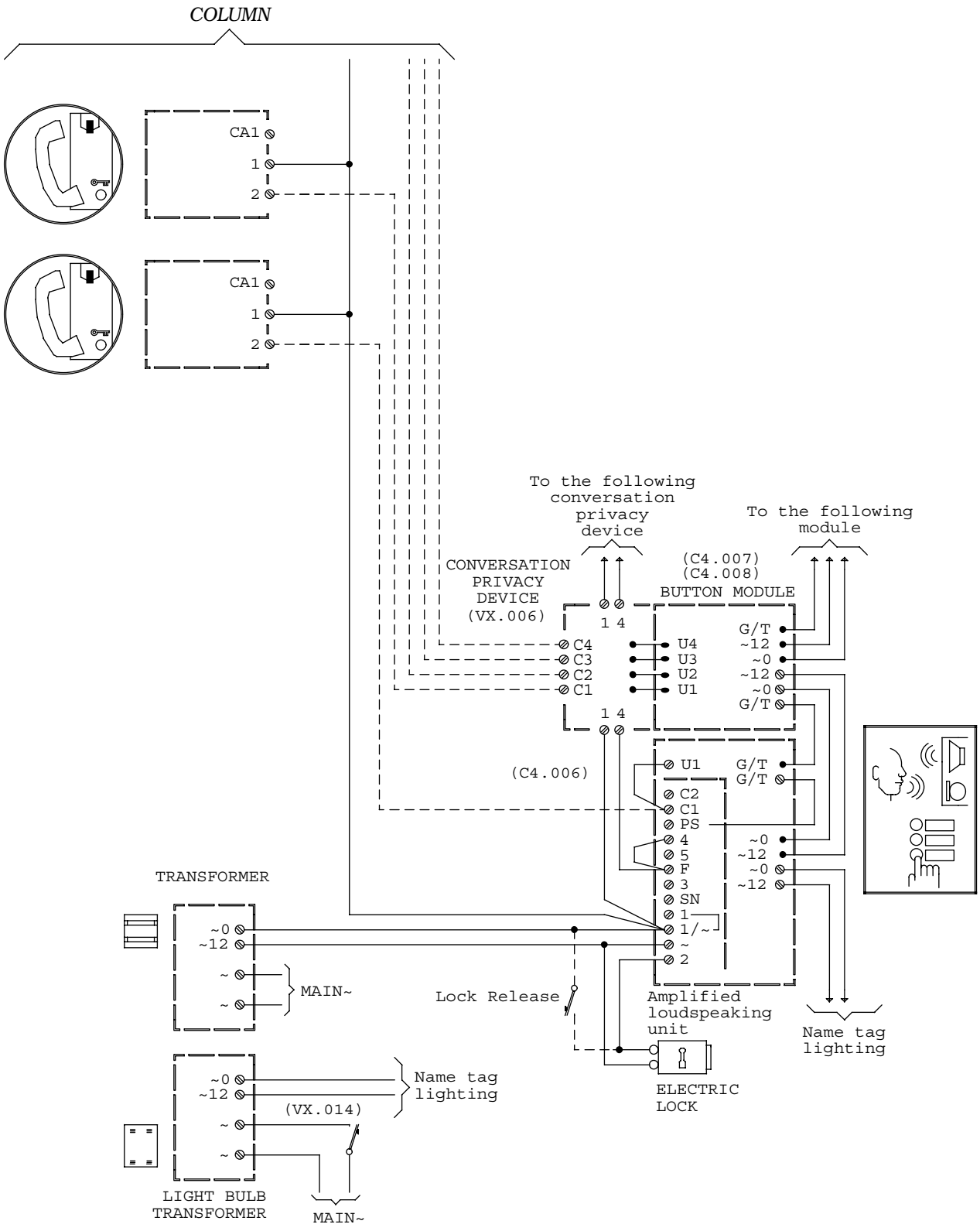
C4.007
C4.008
VX.006
VX.014

urmet DOMUS

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

1+1

SC101-1135F



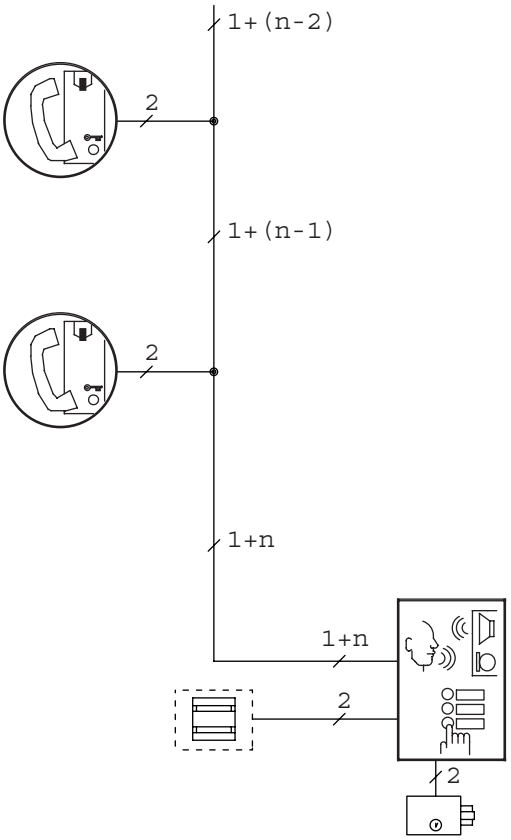
1+1

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)

urmet DOMUS

FUNCTION

1+1 wire system allows to obtain the service of a standard outdoor set installation with conversation, call, electric lock opening, with only 2 wires in the rising column: 1 common + 1 single for each door phone.
The outdoor set is fed, with two wires only, by a 12V a.c. voltage transformer.
To assure secrecy to all the door phones, special devices for secrecy of conversation are inserted into the push button panel (one for each key).
So, all the door phones will be cut off from any conversation (nothing can be heard when picking up the handset); only the called door phone can start a conversation with the caller, no other being able to intercept the call.
The called house is qualified to talk until another call is made from the push button panel to other door phone.
The electric lock opening depends from the circuit of secrecy of conversation (the lock cannot be operated unless the door phone has been called).



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0932C:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. 1	Transformer	**Ref. 9000/230**

OUTDOOR STATION REFERENCES

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1035/67**
N. X/4	Conversation privacy device	**Ref. 1035/25**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

Domus Aura model

N. 1	Panel with N buttons	**Mod. 1110**
N. 1	Amplified door unit	**Ref. 1035/67**
N. X/4	Conversation privacy device	**Ref. 1110/74**

For the panels references and the accessories refer to “Panels Domus Aura” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

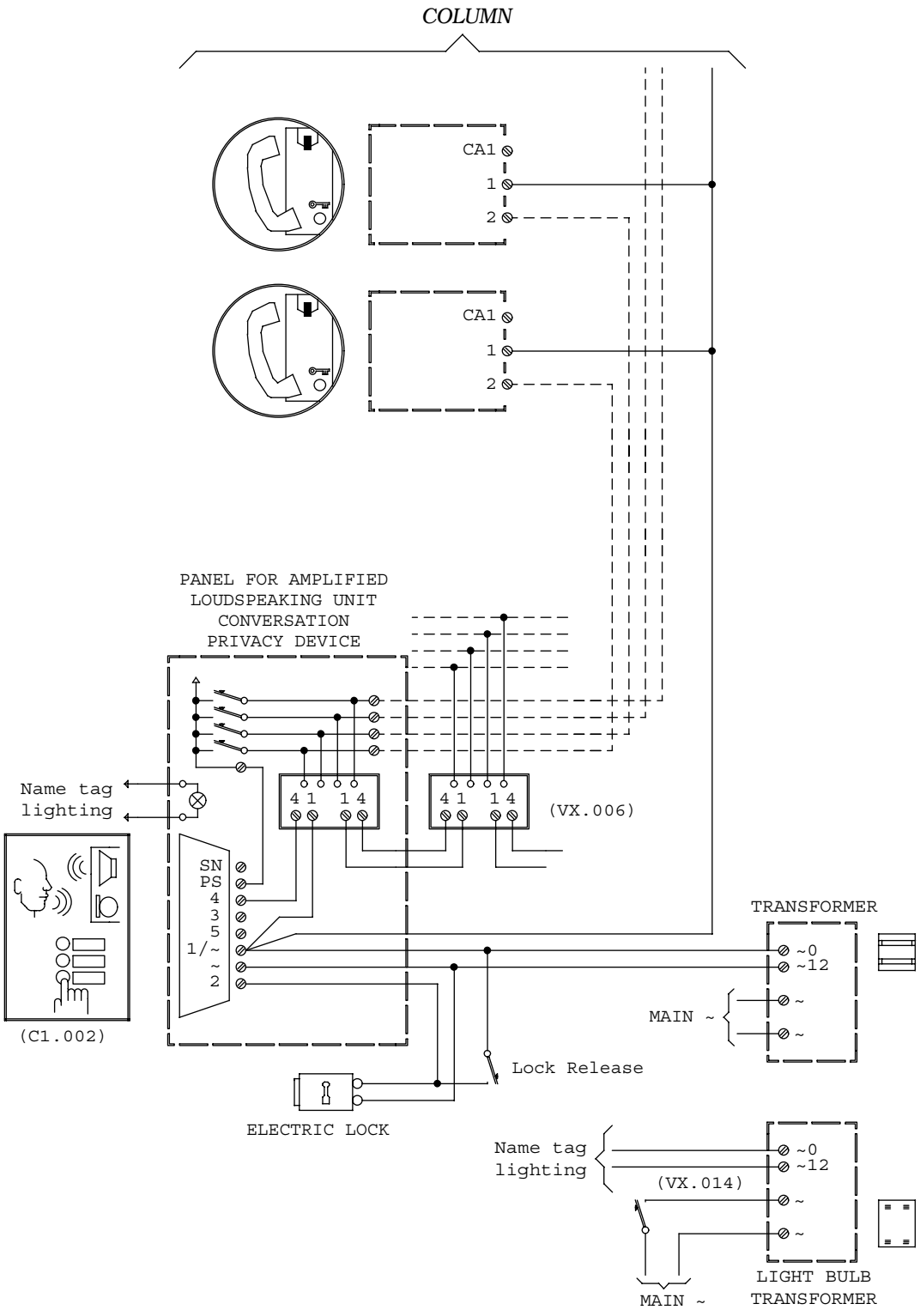
(see section 1)

C1.002
VX.006
VX.014

CONNECTION OF SEVERAL DOOR PHONES TO 1 OUTDOOR STATION WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)

1+1

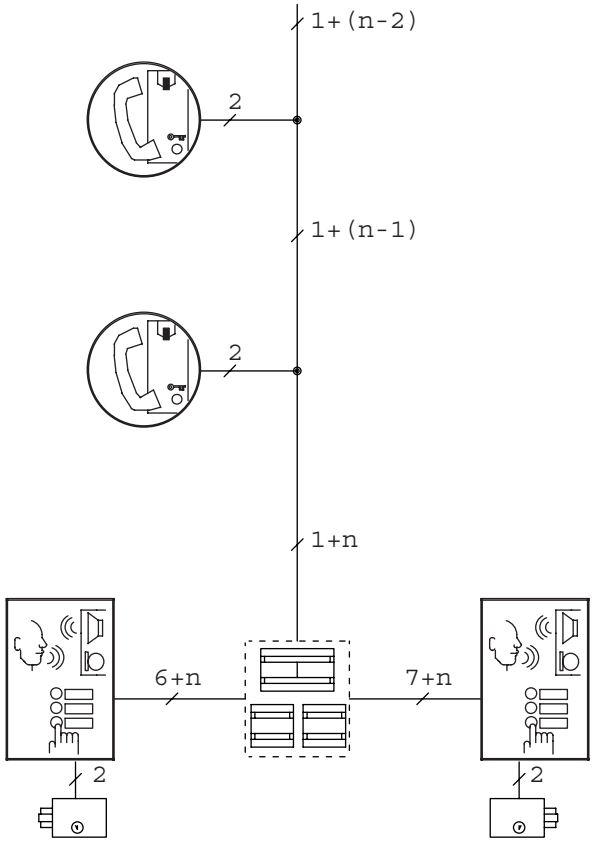
SC101-0932C



CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

FUNCTION

The 1+1 wire door phone system makes it possible to set up systems in which a door phone riser is to be connected to two entrances each with 1 push button panel with related loudspeaking unit.
Adding a specific relay device, a person can press a key of one of the two push button panels so that the user of the door phone called, on lifting the handset, is automatically connected with the calling push button panel excluding the other service.
Therefore in this system, it is not possible to speak from two outdoor stations at the same time in that functioning of these is alternative.
to guarantee secrecy of conversation of all the door phones in the system, the specific secrecy circuits (one for each button) are inserted inside only one of the two push button panels.
Release of the electric lock is also enabled by the secrecy circuit. This means that a user cannot release the lock unless he/she has been called and can open only the lock corresponding to the push button panel from which the call has been made.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1210B:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. 2	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 2	Module with door unit set-up	**Ref. 1145/20-/21**
N. 2	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 2	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C1.002

C4.006
Sinthesi models only:
Connect jumper C1 with U1.

C4.007
C4.008
VX.006
VX.014

VX.021
Cut or remove the jumpers on the device(s):
a) PS – G/T
b) 4 – F

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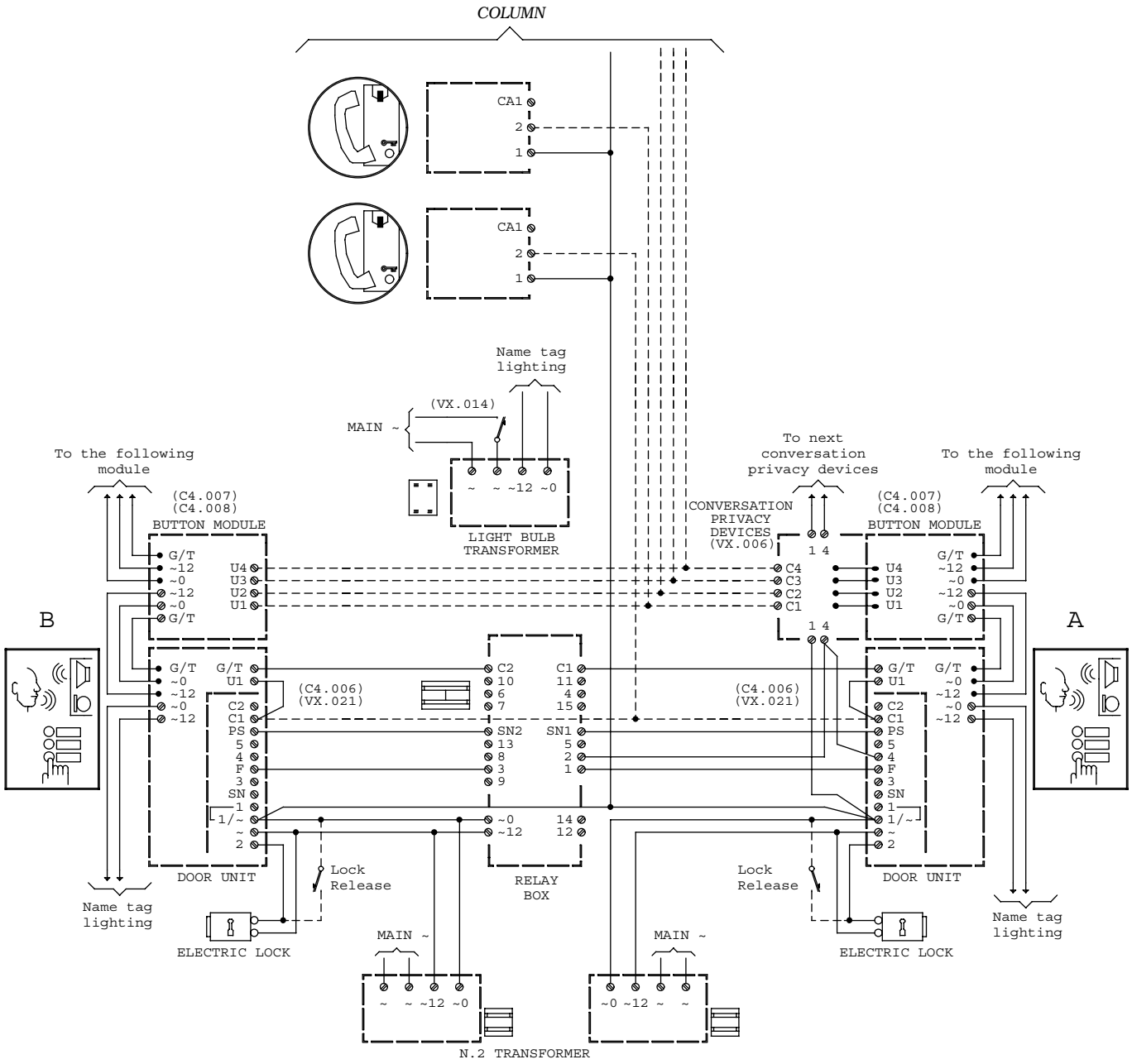
CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

1+1

SC101-1210B



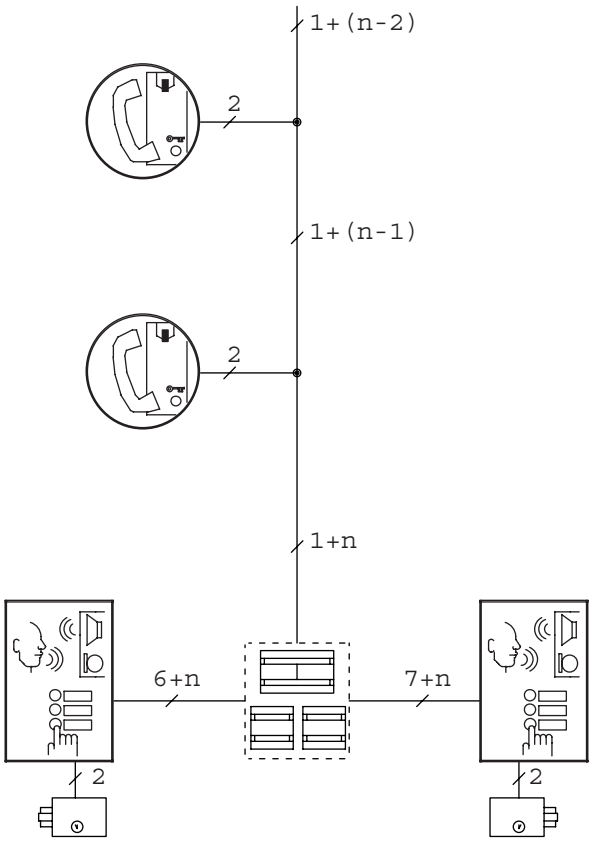
1+1

CONNECTION OF SEVERAL DOOR PHONES TO TWO OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)

urmet DOMUS

FUNCTION

The 1+1 wire door phone system makes it possible to set up systems in which a door phone riser is to be connected to two entrances each with 1 push button panel with related loudspeaking unit.
Adding a specific relay device, a person can press a key of one of the two push button panels so that the user of the door phone called, on lifting the handset, is automatically connected with the calling push button panel excluding the other service.
Therefore in this system, it is not possible to speak from two outdoor stations at the same time in that functioning of these is alternative.
to guarantee secrecy of conversation of all the door phones in the system, the specific secrecy circuits (one for each button) are inserted inside only one of the two push button panels.
Release of the electric lock is also enabled by the secrecy circuit. This means that a user cannot release the lock unless he/she has been called and can open only the lock corresponding to the push button panel from which the call has been made.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0937B:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. X	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/51**

OUTDOOR STATION REFERENCES

725 model

N. 2	Panels with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1035/67**
N. X/4	Conversation privacy device	**Ref. 1035/25**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

Domus Aura model

N. 2	Panels with N buttons	**Mod. 1110**
N. 2	Amplified door unit	**Ref. 1035/67**
N. X/4	Conversation privacy device	**Ref. 1110/74**

For the panels references and the accessories refer to “Panels Domus Aura” section of Doorphone and Videodoorphone system - product technical manual.

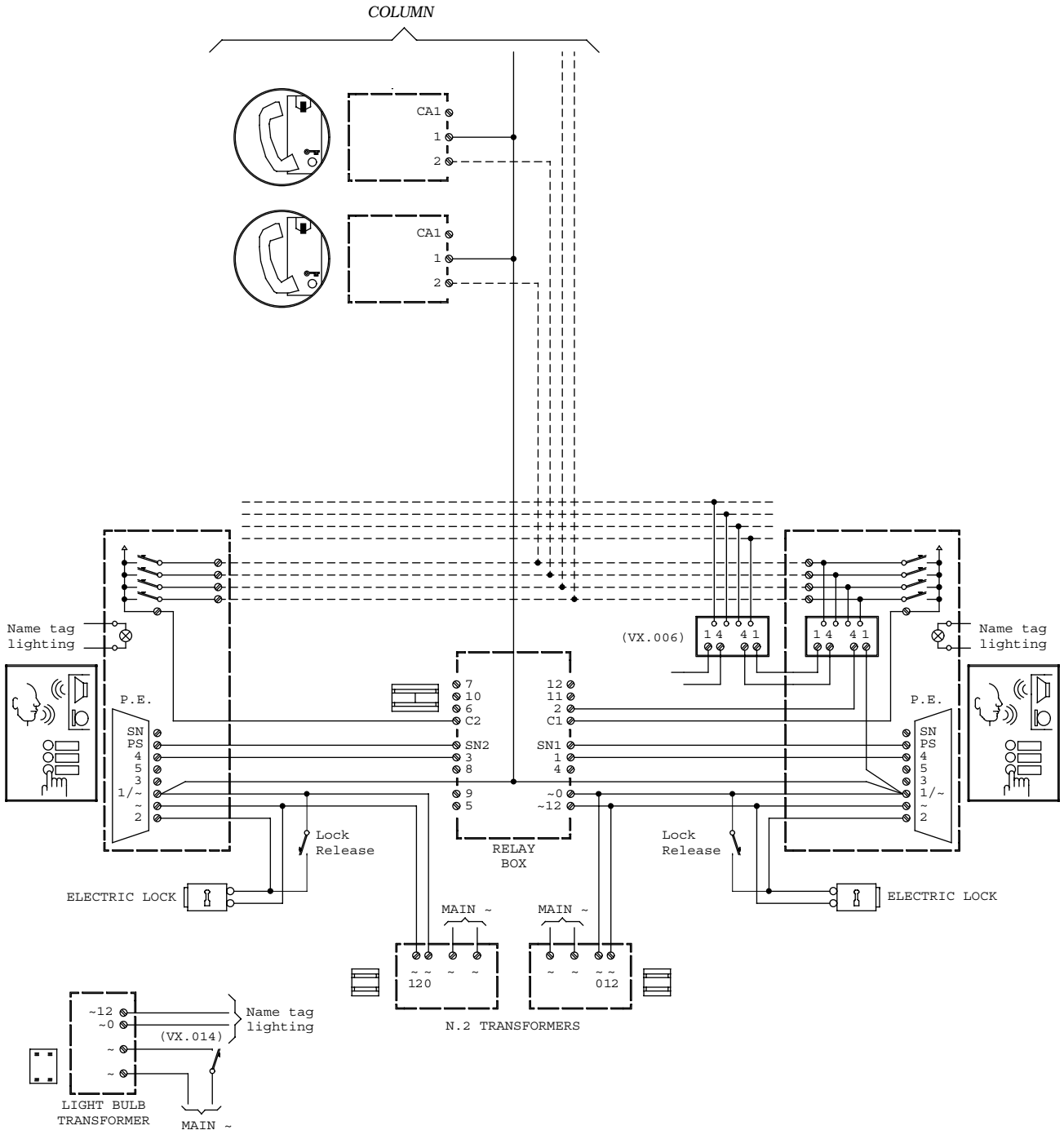
DIAGRAM NOTES

(see section 1)

C1.002
VX.006
VX.014

CONNECTION OF SEVERAL DOOR PHONES TO TWO OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. 725 or Mod. Domus Aura)

SC101-0937B



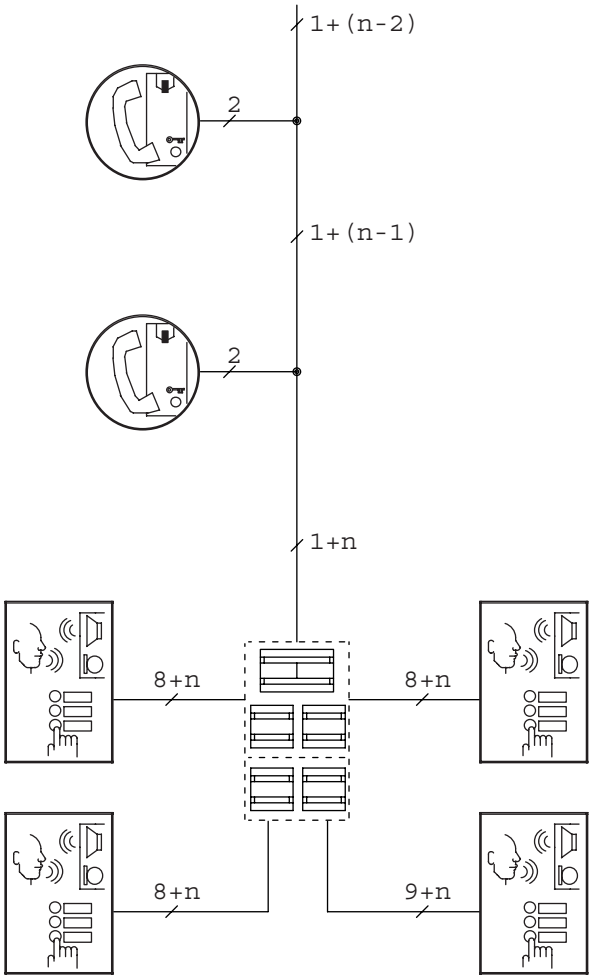
1+1

CONNECTION OF SEVERAL DOOR PHONES TO FOUR OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

urmet DOMUS

FUNCTION

The 1+1 wire door phone system makes it possible to set up systems in which a door phone riser is to be connected to four entrances each with 1 push button panel with related loudspeaking unit.
Adding a specific relay device, a person can press a key of one of the two push button panels so that the user of the door phone called, on lifting the handset, is automatically connected with the calling push button panel excluding the other service.
Therefore in this system, it is not possible to speak from four outdoor stations at the same time in that functioning of these is alternative.
To guarantee secrecy of conversation of all the door phones in the system, the specific secrecy circuits (one for each button) are inserted inside only one of the two push button panels.
Release of the electric lock is also enabled by the secrecy circuit. This means that a user cannot release the lock unless he/she has been called and can open only the lock corresponding to the push button panel from which the call has been made.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1218C:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. 4	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/54**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with door unit set-up	**Ref. 1145/20-/21**
N. 4	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C1.002

C4.006
Sinthesi models only:
Connect jumper C1 with U1.

C4.007
C4.008
VX.006
VX.014

VX.021
Cut or remove the jumpers on the device(s):
a) PS – G/T
b) 4 – F

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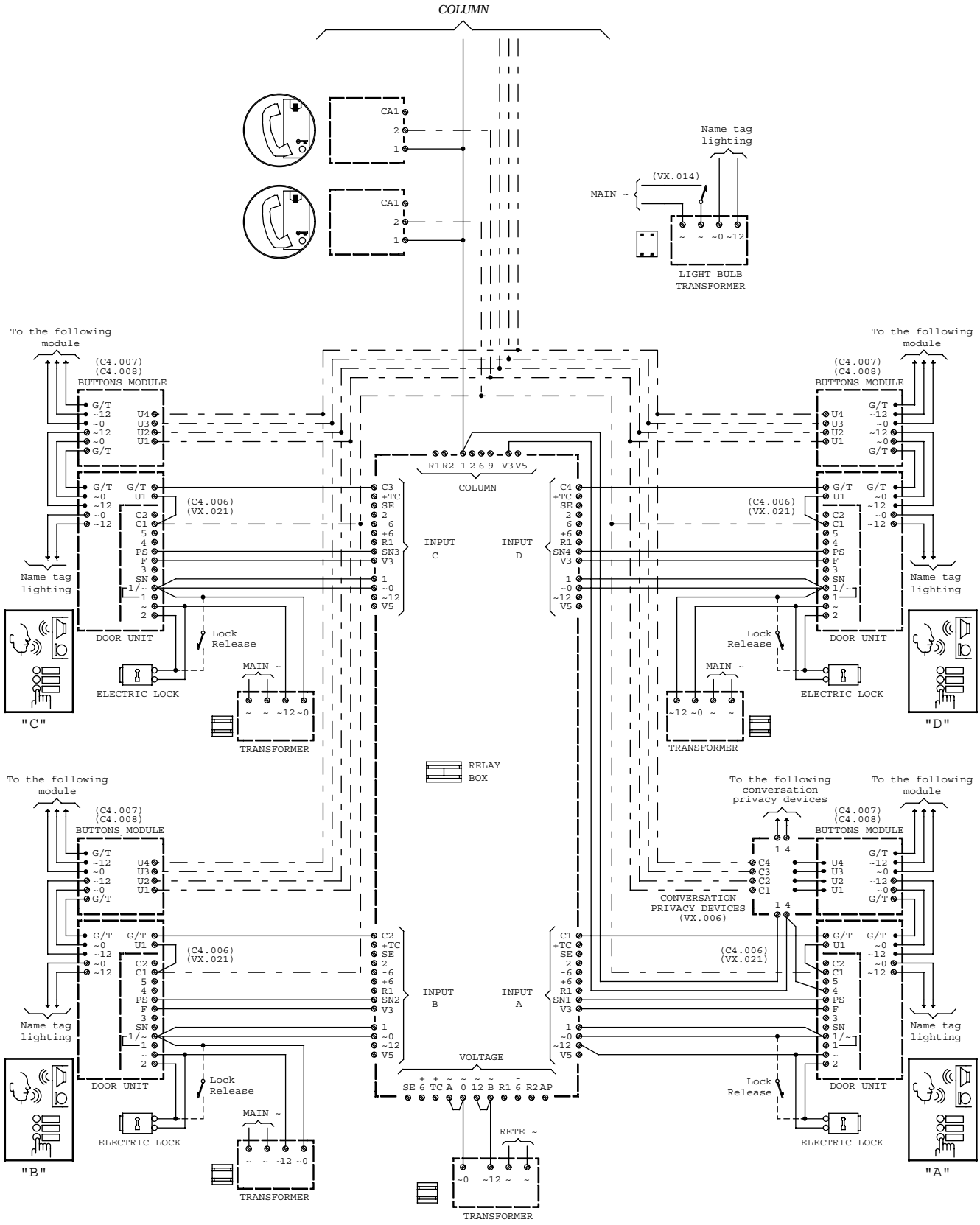
CONNECTION OF SEVERAL DOOR PHONES TO FOUR OUTDOOR STATIONS WITH SECRECY OF CONVERSATION (Panels Mod. Sinthesi or K-Steel)

1+1

SC101-1218C



1+1

CONNECTION OF SEVERAL COLUMN OF DOOR PHONES TO COMMON OUTDOOR STATIONS
Each group in also connected to its own secondary outdoor station (Panels Mod. Sinthesi or K-Steel)

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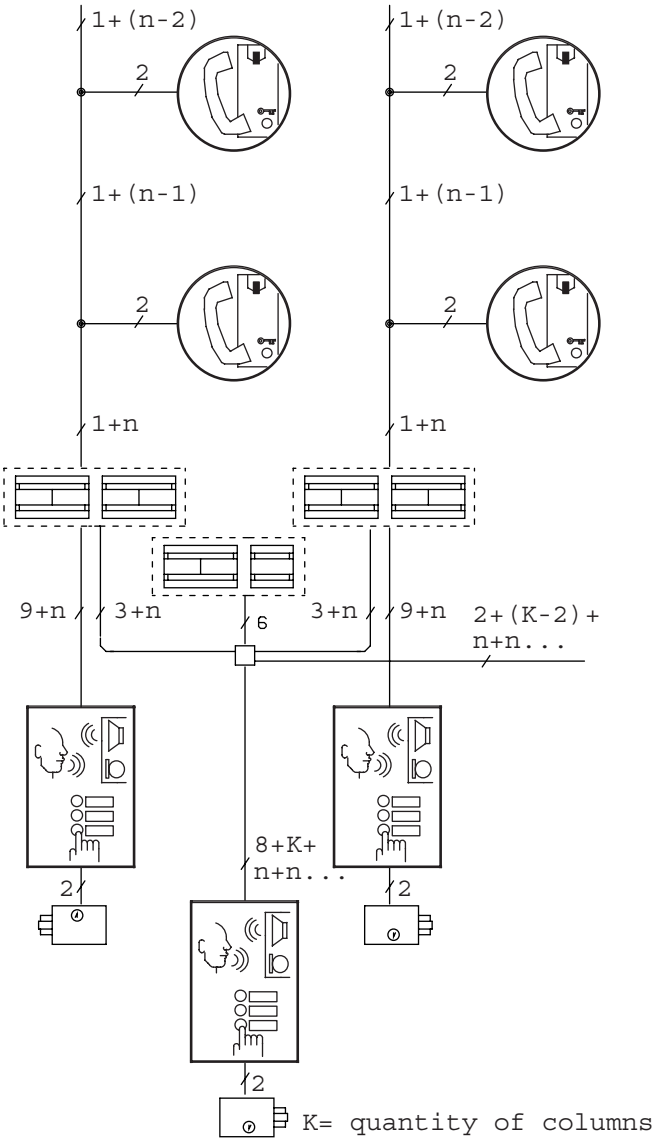
FUNCTION

It is the ideal solution for residential centers where the single villas have to be connected to both their own outdoor stations and a common one at the main entrance.
During the call the concerned door phone is automatically switched to the common outdoor station or to the one of the group it belongs to, by means of a switching relay.
Services towards secondary outdoor stations are independent and can therefore take place at the same time.
When the call comes from the common outdoor station, only the group the called door phone belongs to is switched to it, the others being able to carry on the normal service with their own secondary outdoor stations.
To guarantee secrecy of conversation of all the door phones in the system, the specific secrecy circuits (one for each button) are inserted inside only one of the two push button panels.
Release of the electric lock is also enabled by the secrecy circuit. This means that a user cannot release the lock unless he/she has been called and can open only the lock corresponding to the push button panel from which the call has been made.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1241B:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phones Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY REFERENCES

N. K+1	Transformer	**Ref. 9000/230**
N. K	Relay box	**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with door unit set-up	**Ref. 1145/20-/21**
N. K+1	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. Y	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

DIAGRAM NOTES

(see section 1)

C1.002
C4.007
C4.008
VX.006
VX.014

VX.021
Cut or remove the jumpers on the device(s):
a) 4 – F

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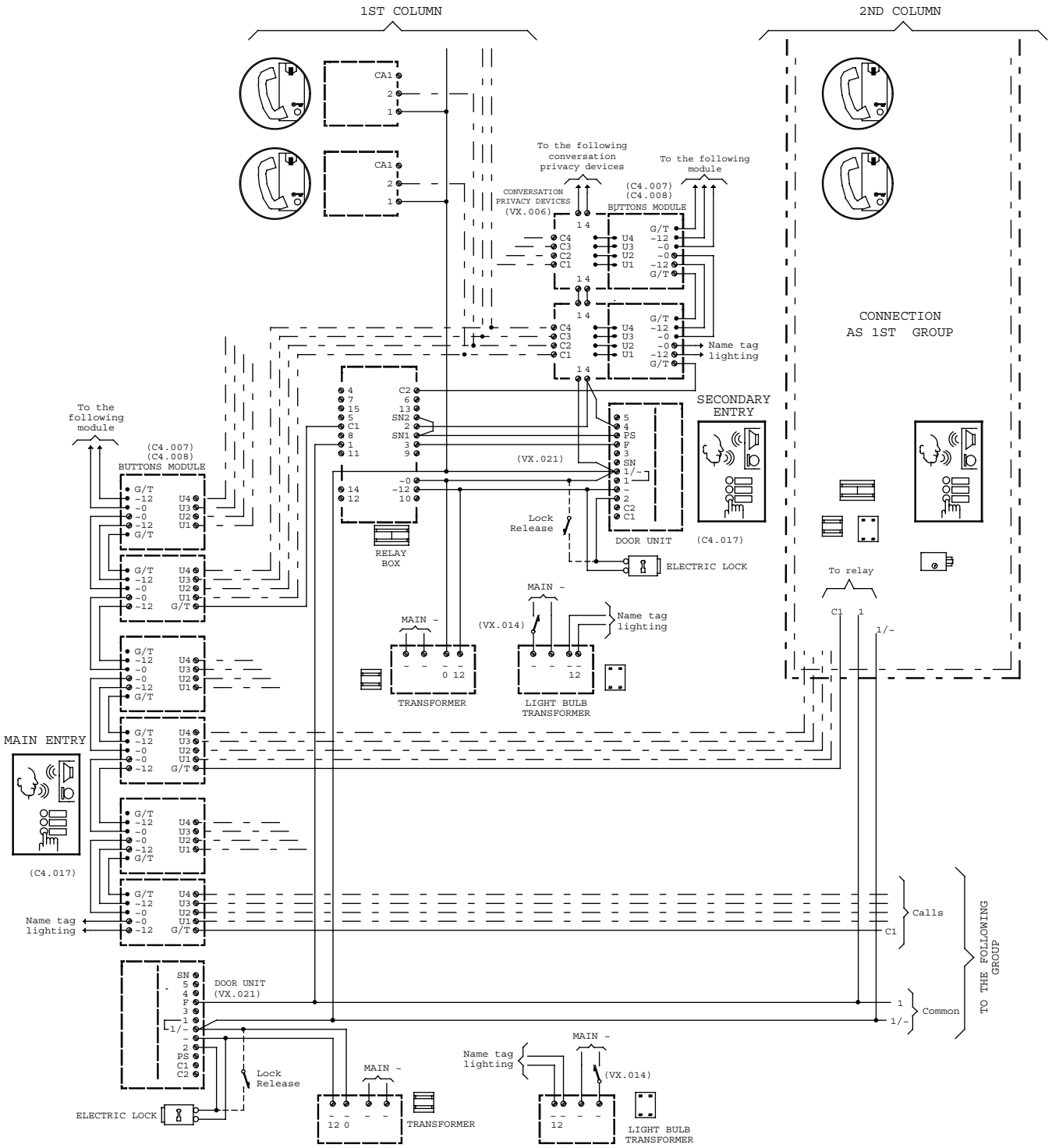
CONNECTION OF SEVERAL COLUMN OF DOOR PHONES TO COMMON OUTDOOR STATIONS
Each group in also connected to its own secondary outdoor station (Panels Mod. Sinthesi or K-Steel)

1+1

SC101-1241B



1+1

CONNECTION OF 1 DOOR PHONES TO 1 OUTDOOR STATION
Door phone can open door during call from panel

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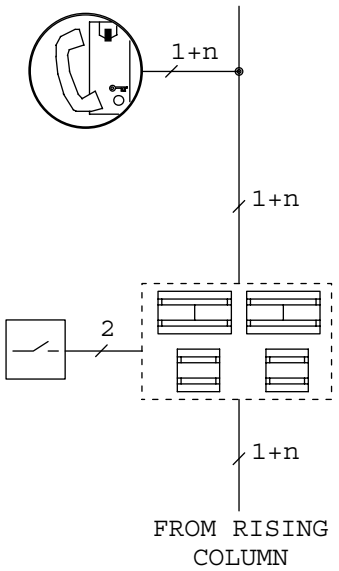
FUNCTION

This service is particularly required by professional offices, where a lot of people coming in and out obliges to often open the door without the use of the door phone to talk with the outside.
Diagram SC101-1327 shows the connection of a door phone to a normal 1+1 wire electrical door phone system. Equip the system with a relay Ref. 788/22, a power unit Ref. 1090/850 and a timed relay Ref.1032/81.
The concerned door phone will energise the door phone which will in turn release the electrical lock when the switch (not supplied by us) is positioned during the call step.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1327:

DOOR PHONE REFERENCES

N. X	Door phones Mod. Utopia	**Ref. 1134/35**
	or	
N. X	Door phone Mod. Atlantico	**Ref. 1133/35A**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/22**
N. 1	Timer	**Ref. 1032/81**

DIAGRAM NOTES

(see section 1)

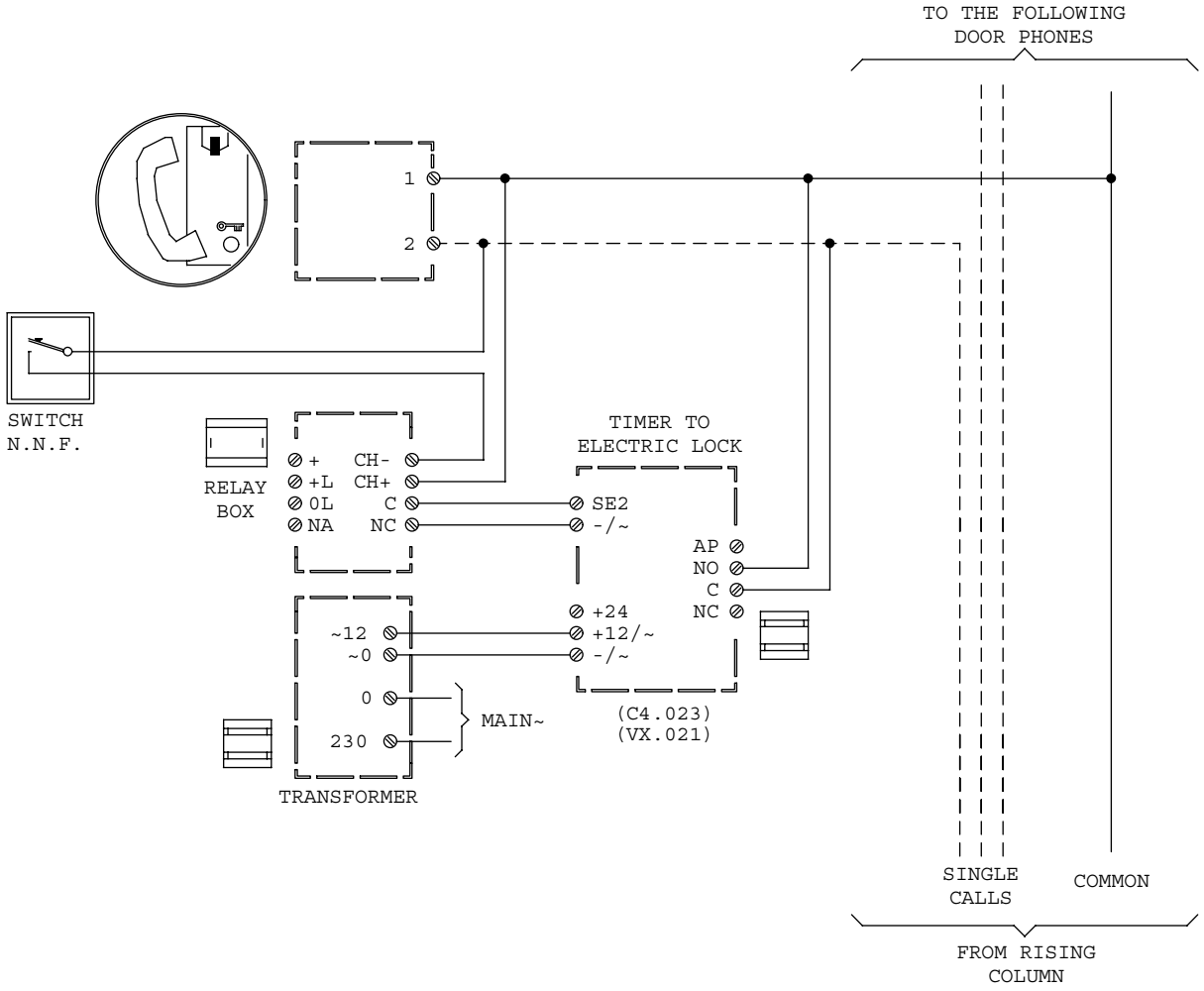
C4.023

VX.021
Cut or remove the jumpers on the device(s):
a) AMCR

CONNECTION OF 1 DOOR PHONES TO 1 OUTDOOR STATION
Door phone can open door during call from panel

1+1

SC101-1327



1+1

RELEASE OF TWO ELECTRICAL LOCKS AT THE SAME TIME

a) 725 or Domus Aura door unit
b) Sinthesi or K-Steel door unit

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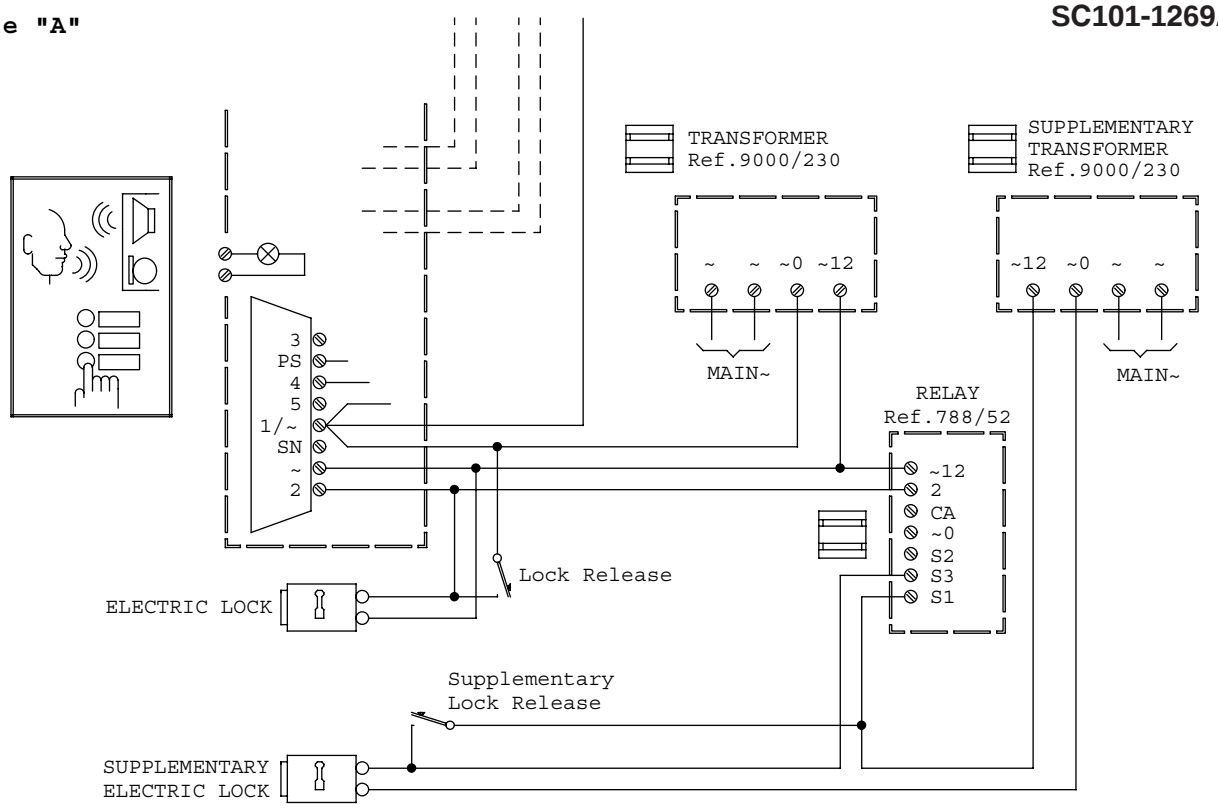
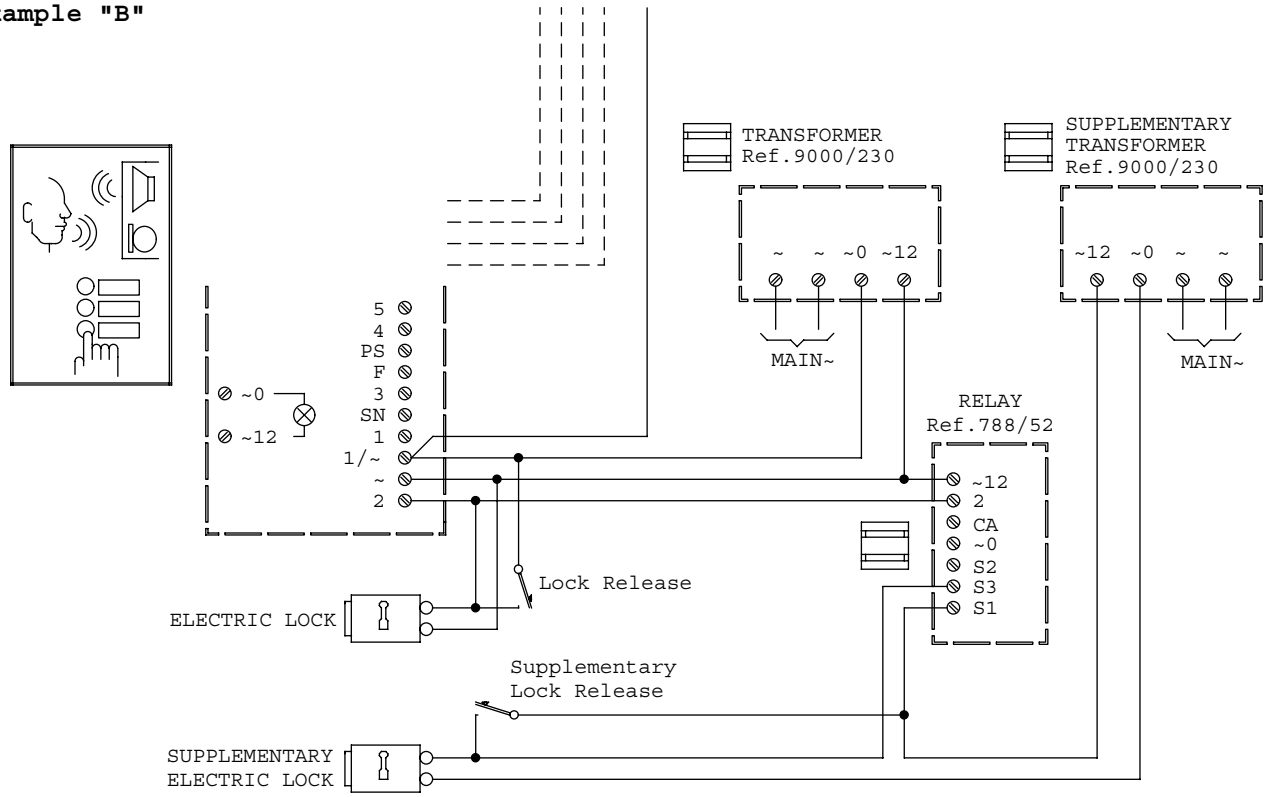
SC101-1269A

Example "A"



Example "B"



BASIC DIAGRAMS FOR TRADITIONAL CALL DOOR PHONE SYSTEMS

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Technical Manuals area

trad.

SECTION 1C CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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BASIC DIAGRAMS FOR TRADITIONAL CALL DOOR PHONE SYSTEMS			
CONNECTION OF DOOR PHONES TO 1 OUTDOOR STATION	SC101-1247A	1c	**2**
CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS	SC101-0440B	1c	**4**
CONNECTION OF SEVERAL DOOR PHONES TO 3 OR 4 OUTDOOR STATIONS	SC101-0441C	1c	**6**
CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION Each column is also connected to its own outdoor station	SC101-0461B	1c	**8**

TRADITIONAL CALL DOOR PHONE SYSTEM DIAGRAM CROSS-REFERENCE TABLE

LIST OF AVAILABLE FUNCTIONS				
Number of main panels to be installed				
	Number of secondary panels to be installed			
		DIAGRAM DESCRIPTION	**DIAGRAM**	**PAG**
1	**0**	CONNECTION OF DOOR PHONES TO 1 OUTDOOR STATION	SC101-1247A	2
1	**K**	CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION Each column is also connected to its own outdoor station	SC101-0461B	8
2	**0**	CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS	SC101-0440B	4
4	**0**	CONNECTION OF SEVERAL DOOR PHONES TO 3 OR 4 OUTDOOR STATIONS	SC101-0441C	6

K = number of columns with panel

NOTE: *The diagrams shown in this table can be made using Sinthesi, K-Steel, 725 panel models.*

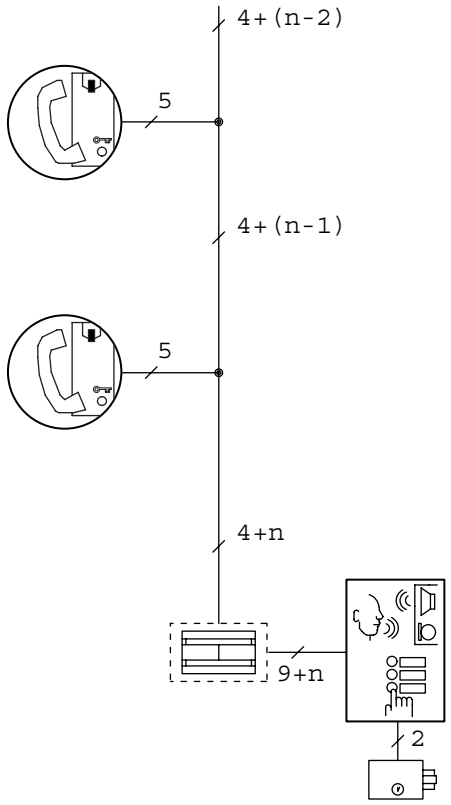
trad.

CONNECTION OF DOOR PHONES TO 1 OUTDOOR STATION

urmet DOMUS

FUNCTION

This is certainly the most common type of door phone system.
Press a button on the panel outside the building door to make the buzzer of the corresponding door phone ring. Lift the handset of the called door phone to establish a conversation with the door unit.
Simply fully press the handset hook to operate the electrical door lock.
Using the door phone Ref. 1130/55 must press the button no the handset to estabilish a conversation with the door unit; simply picking up the handset is not sufficient.
The advantage is that any handsets left accidentally off-hook do not interfer with the optimal operation of the other door phones.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-1247A:

DOOR PHONE REFERENCES

N. X	Door phones Mod. 1130	Ivory colour	**Ref. 1130**
		White colour	**Ref. 1130/50**
	or		
N. X	Door phones Mod. 1130 with insertion key	White colour	**Ref. 1130/55**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

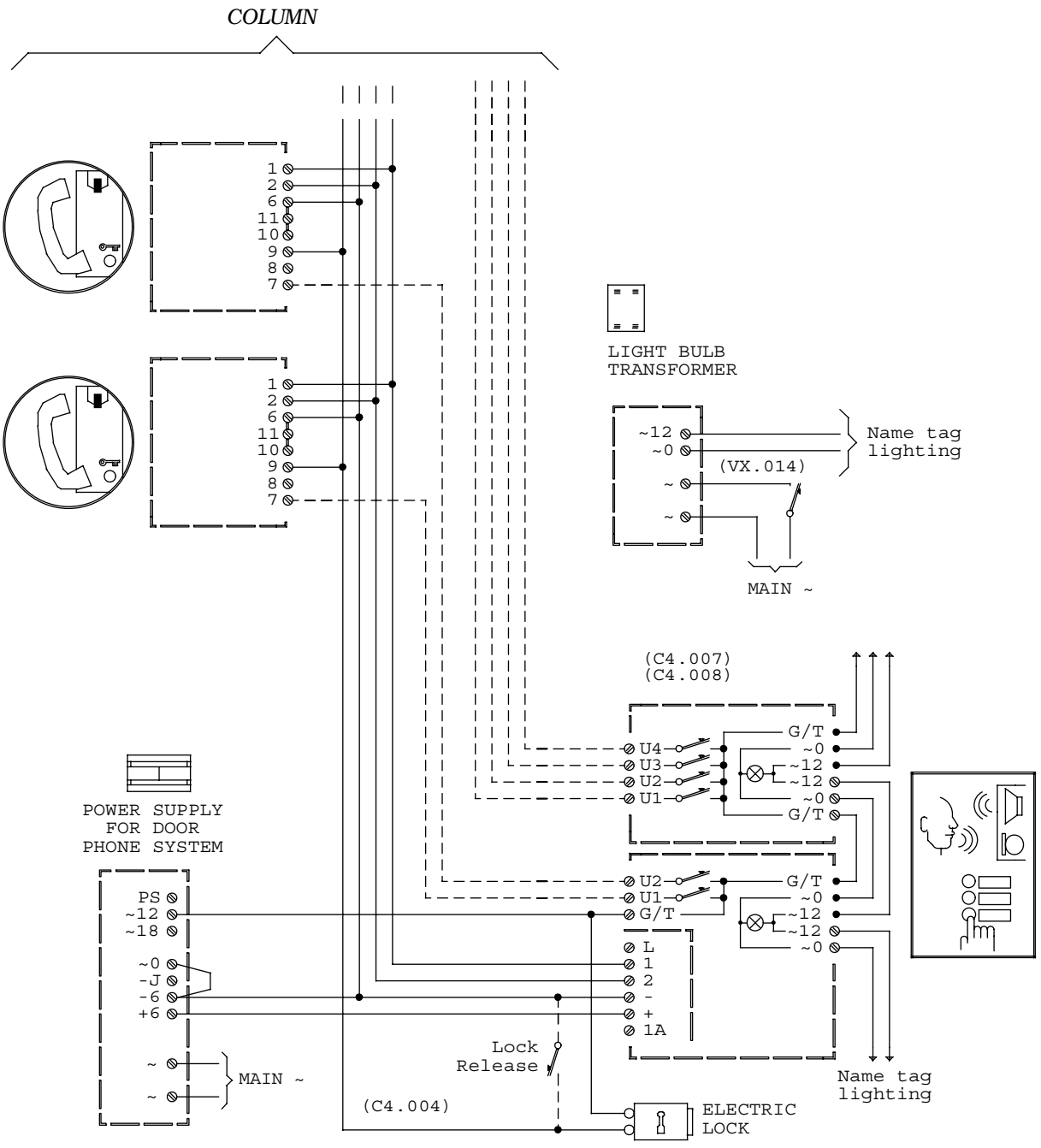
For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

(see section 1)

C4.001
C4.004
C4.007
C4.008
VX.014

SC101-1247A


COLUMN
1
2
6
11
10
9
8
7
LIGHT BULB TRANSFORMER
~12
~0
(VX.014)
~
~
Name tag lighting
MAIN ~
(C4.007)
(C4.008)
U4
U3
U2
U1
G/T
~0
~12
~12
~0
G/T
POWER SUPPLY FOR DOOR PHONE SYSTEM
PS
~12
~18
~0
-J
-6
+6
L
1
2
-
+
1A
Lock Release
MAIN ~
(C4.004)
ELECTRIC LOCK
Name tag lighting

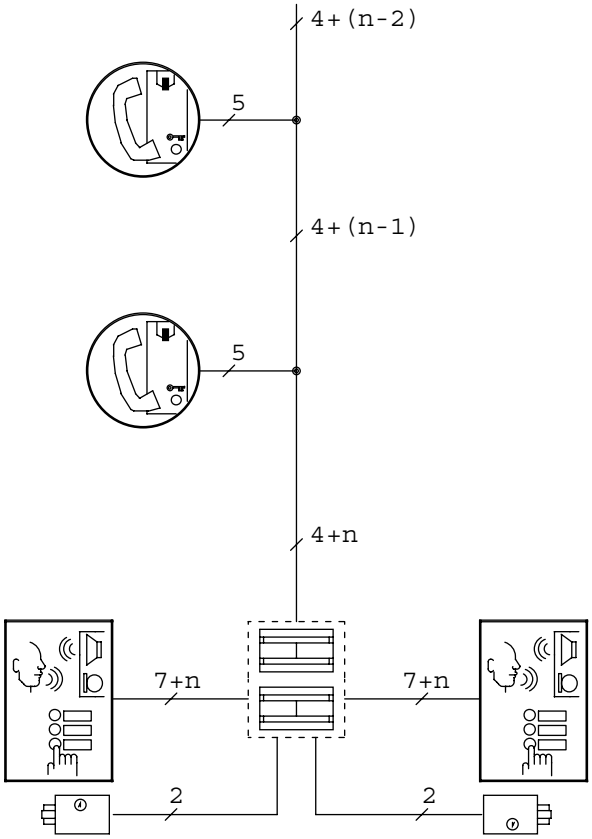
trad.

CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS

urmet DOMUS

FUNCTION

This type of installation solves the problem to connect a series of door phones of a building with 2 entrances each one equipped with a push button panel.
This solution permits, by simply pushing a button from one of the 2 push button panels, to connect automatically the user to the calling push button panels unhooking the handset. This type of installation does not allow to talk from both outdoor stations simultaneously, since they work alternatively.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0440B:

DOOR PHONE REFERENCES

N. X	Door phones Mod. 1130	Ivory colour	**Ref. 1130**
		White colour	**Ref. 1130/50**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box		**Ref. 788/51**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 2	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 2	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 2	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for door unit	**Ref. 1128/20-/21**
N. 2	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

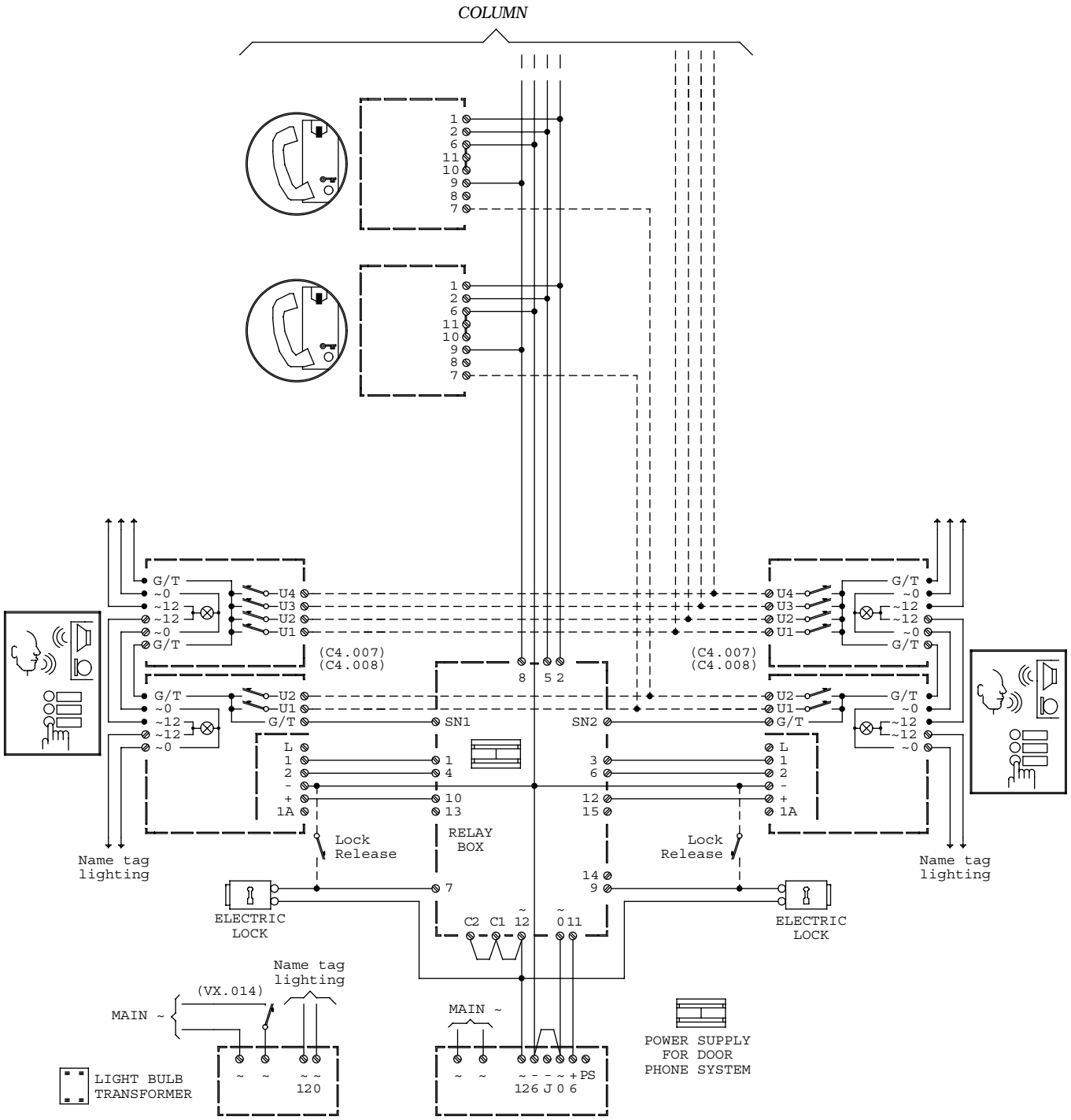
(see section 1)

C4.001
C4.007
C4.008
VX.014

CONNECTION OF SEVERAL DOOR PHONES TO 2 OUTDOOR STATIONS

trad.

SC101-0440B



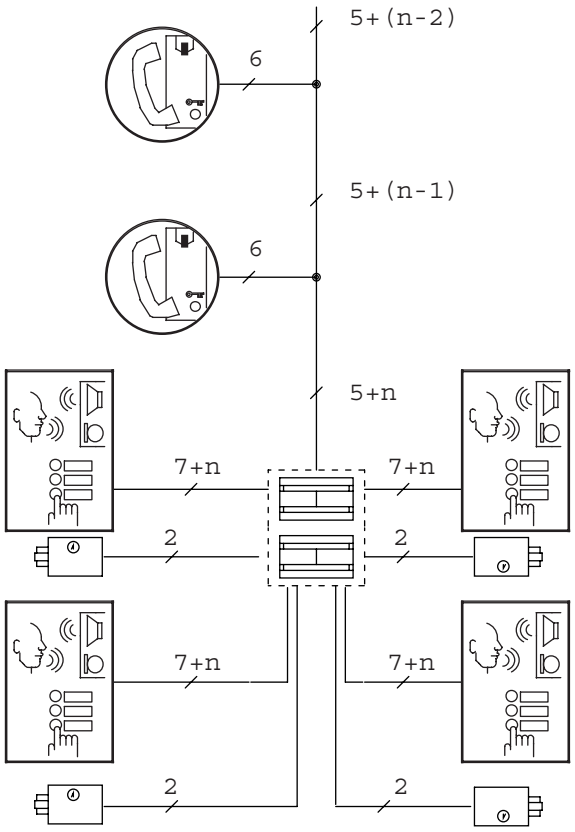
trad.

CONNECTION OF SEVERAL DOOR PHONES TO 3 OR 4 OUTDOOR STATIONS

urmet DOMUS

FUNCTION

This installation allows connection of a series of door phone to 3 or 4 push button panels.
By simply pushing a button on one of the 4 panels, the called door phone, picking up the handset, is automatically connected with the calling push button panel.
It is not possible to talk from the outdoor stations simultaneously, since they work alternatively.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0441C:

DOOR PHONE REFERENCES

N. X	Door phones Mod. 1130	Ivory colour	**Ref. 1130**
		White colour	**Ref. 1130/50**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
N. 1	Relay box		**Ref. 788/58**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 4	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 4	Panel with N buttons	**Mod. 725**
N. 4	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 4	Front case for door unit	**Ref. 1128/20-/21**
N. 4	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

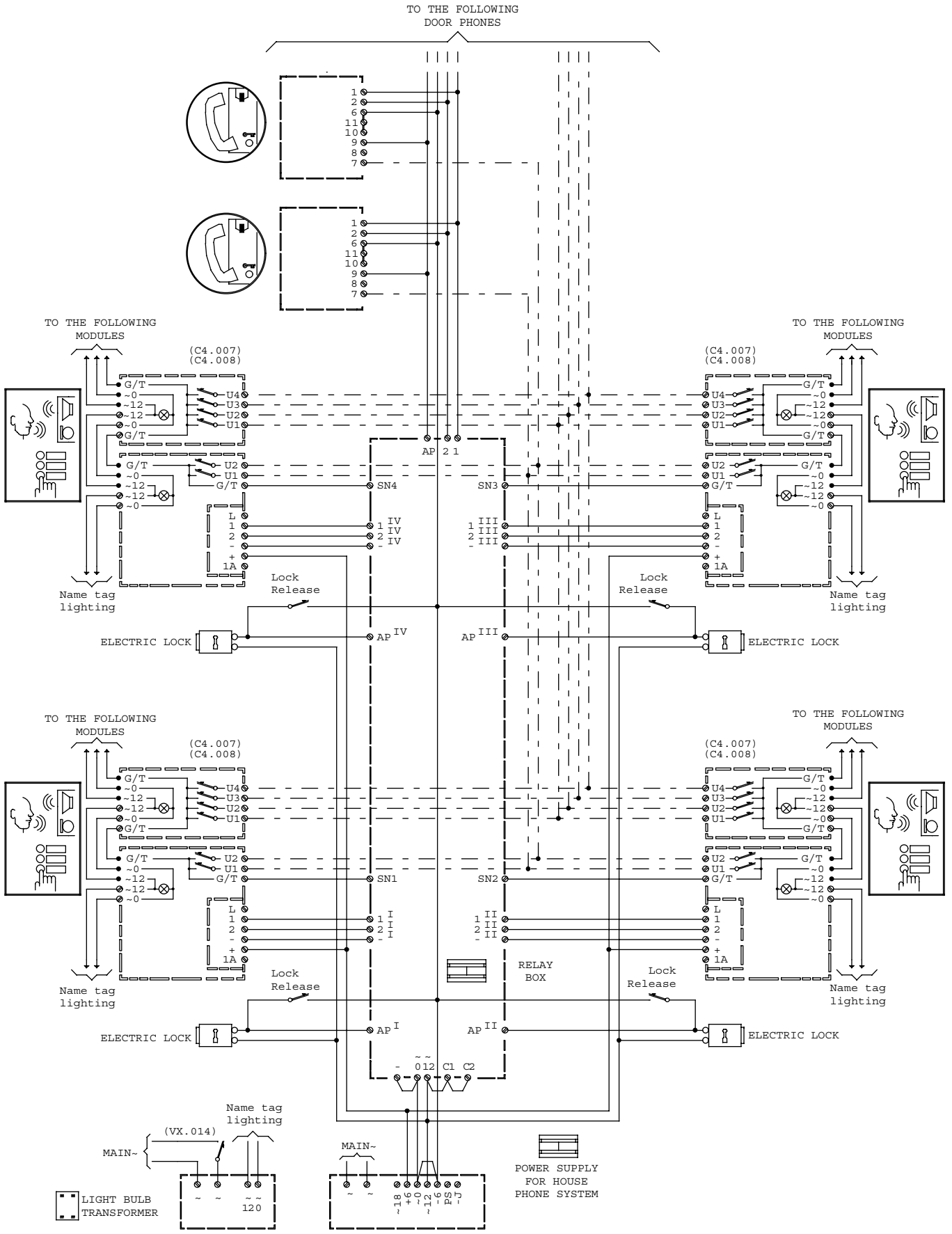
(see section 1)

C4.001
C4.007
C4.008
VX.014

CONNECTION OF SEVERAL DOOR PHONES TO 3 OR 4 OUTDOOR STATIONS

trad.

SC101-0441B



trad.

CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION
Each column is also connected to its own outdoor station

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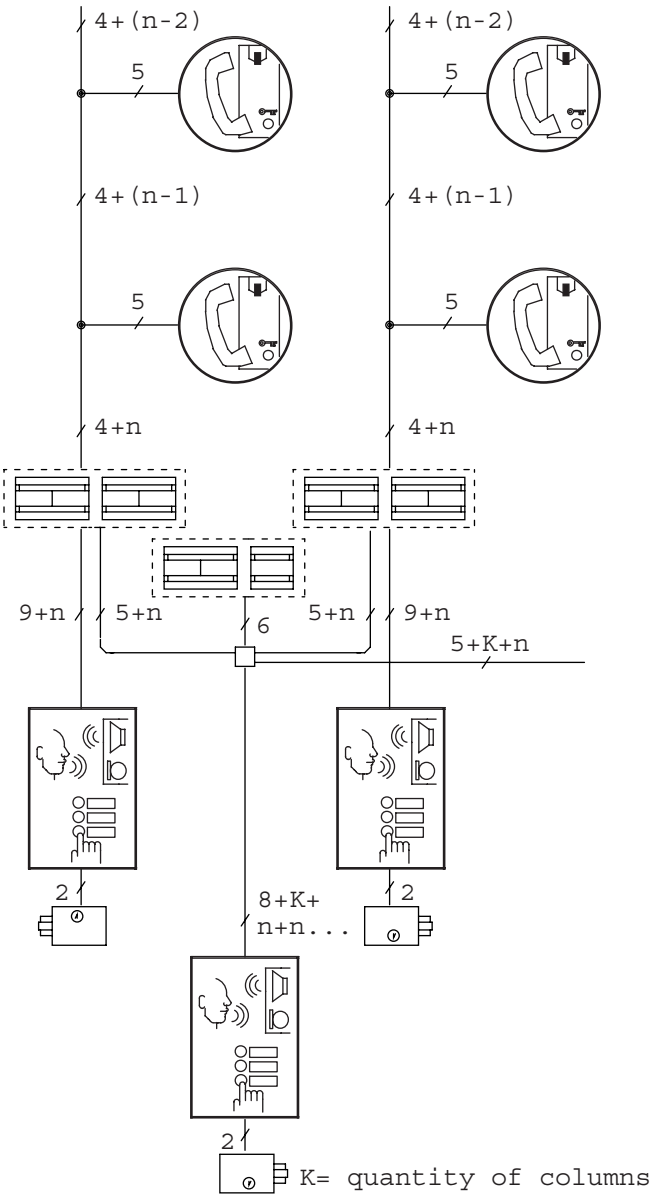
FUNCTION

It is the ideal solution for residential centers where the single villas have to be connected to both their own outdoor stations and a common one at the main entrance.
During the call the concerned door phone is automatically switched to the common outdoor station or to the one of the group it belongs to, by means of a switching relay.
Services towards secondary outdoor stations are independent and can therefore take place at the same time.
When the call comes from the common outdoor station, only the group the called door phone belongs to is switched to it, the others being able to carry on the normal service with their own secondary outdoor stations.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SC101-0461B:

DOOR PHONE REFERENCES

N. X	Door phones Mod. 1130	Ivory colour	**Ref. 1130**
		White colour	**Ref. 1130/50**

POWER SUPPLY FOR DOOR PHONE SYSTEM REFERENCES

N. K+1	Power supply for door phone system	28VA	**Ref. 786/11**
N. K	Relay box		**Ref. 788/51**
N. K	Call repeater relay		**Ref. 788/52**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. K+1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. K+1	Panel with N buttons	**Mod. 725**
N. K+1	Amplified door unit	**Ref. 1128/500**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. K+1	Front case for door unit	**Ref. 1128/20-/21**
N. K+1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

DIAGRAM NOTES

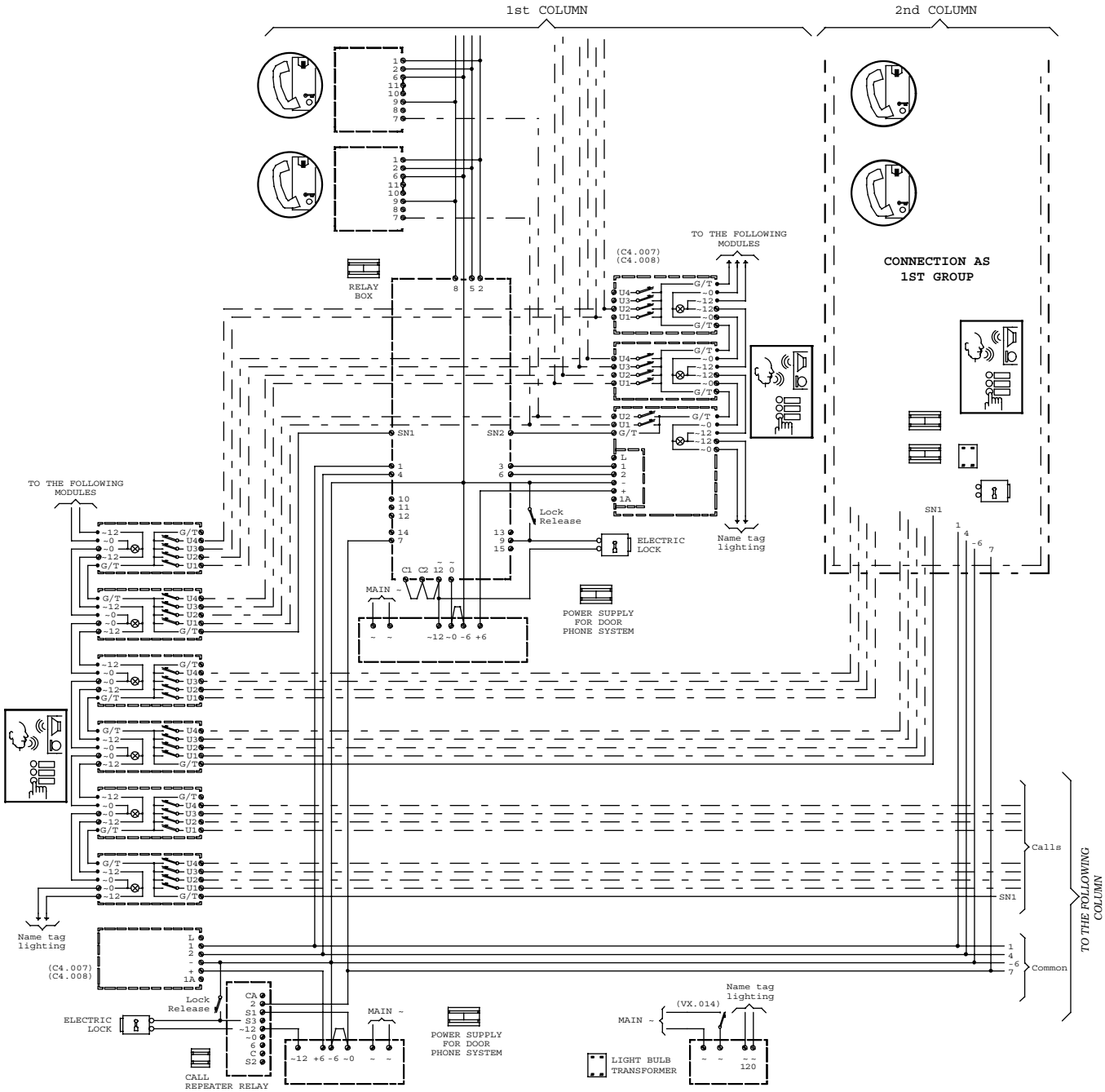
(see section 1)

C4.001
C4.007
C4.008

CONNECTION OF SEVERAL COLUMNS OF DOOR PHONES TO 1 MAIN OUTDOOR STATION
Each column is also connected to its own outdoor station

trad.

SC101-0461B



BASIC DIAGRAMS FOR COAX ELECTRONIC VIDEO DOOR PHONE SYSTEMS

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Technical Manuals area

coax

SECTION 1D CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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BASIC DIAGRAMS FOR COAX ELECTRONIC VIDEO DOOR PHONE SYSTEMS

	Diagram	Sec.	Pag.
CONNECTION OF MAX. 2 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT	SV102-3146D	1d	2
CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION	SV102-2631E	1d	4
CONNECTION OF SEVERAL VIDEO DOOR PHONES AND HOUSE PHONES TO 1 VIDEO OUTDOOR STATION Connection in the riser of a number of house phones with voice service only	SV102-1609E	1d	6
CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION The video outdoor station calls the 4 video door phones in parallel with concurrent power-on	SV102-2066D	1d	8
CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 OUTDOOR STATION EQUIPPED WITH A SEPARATE CCD TV CAMERA Possibility of automatic connection by the video door phones to the TV camera	SV102-3118C	1d	10
CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION Possibility of automatic activation of a second control tv camera	SV102-3119A	1d	12
CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 2 VIDEO OUTDOOR STATIONS	SV102-2892D	1d	14
CONNECTION OF SEVERAL VIDEO DOOR PHONE GROUPS TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT	SV102-2934C	1d	16
CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 4 VIDEO OUTDOOR STATIONS	SV102-3078B	1d	18
CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO A MAIN VIDEO OUTDOOR STATION Each column is connected to 1 proper secondary video outdoor station	SV102-3079A	1d	20
CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO OUTDOOR STATION Each columns is also connected to its own secondary outdoor station	SV102-2935E	1d	22
CONNECTION OF 3 INTERCOM VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT Single call from outside with concurrent power-on	SV102-2970D	1d	24
CONNECTION OF MAXIMUM 9 INTERCOM ATLANTICO VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT Single call from the outside with concurrent power-on	SV102-2972D	1d	26
CONNECTION OF 3 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 2 ELECTRICAL VIDEO DOOR UNITS The video outdoor stations call the video door phones in parallel with concurrent power-on	SV102-3257A	1d	28
CONNECTION OF A CALL REPEATER RELAY IN PARALLELTO THE VIDEO DOOR PHONE	SV102-1469D	1d	30
CONNECTION IN PARALLEL OF 1 VIDEO DOOR PHONE AND 1 DOOR PHONE	SV102-1574C	1d	30
CONNECTION OF A CALL REPEATER RELAY IN PARALLEL TO THE VIDEO DOOR PHONE	SV102-0782D	1d	31
CONNECTION OF 3 VIDEO DOOR PHONE EXTENSIONS IN PARALLEL TO A SYSTEM WITH VIDEO DOOR UNIT The video door phones are called at the same time	SV102-2132E	1d	32
CORRISPONDENCE OF TERMINALS BETWEEN Scaitel AND Sentry+ OR Atlantico VIDEODOORPHONE	SV102-1977A	1d	32
CONNECTION OF 3 INTERCOM VIDEO DOOR PHONE EXTENSIONS TO A SYSTEM WITH VIDEO DOOR UNIT Single call from outside with concurrent power-on	SV102-1349E	1d	34
CONNECTION OF N VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT Distance between video door phone and video door unit in the range from 300 to 1000 metres	SV102-1241D	1d	36
CONNECTION OF SEVERAL COLOURS VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION	SV102-3063A	1d	38
CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 DOOR UNIT Door open indicator on video door phones	SV102-3228A	1d	40

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DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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CONNECTION OF N FREE-HANDS COLOUR VIDEO DOOR PHONE COLUMNS
TO 1 MAIN VIDEO DOOR UNIT
Each column is additionally connected to a specific secondary door unit ..... SV102-3235 ..... 1d **44**

CONNECTION OF 3 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY
OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT ..... SV102-3219 ..... 1d **46**

CONNECTION OF 2 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY
OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT
Single call from outside with concurrent power-on ..... SV102-3220 ..... 1d **48**

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EXAMPLES OF COAXIAL CABLE CONNECTION ..... SV102-3295 ..... 1d **51**

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SECTION 1D CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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COAX VIDEO DOOR PHONE SYSTEM DIAGRAM CROSS-REFERENCE TABLE

WITH BLACK AND WHITE CAMERA

LIST OF AVAILABLE FUNCTIONS

Number of main video door phone panels to be installed	Number of video door phone secondary panels to be installed	Number of main door phone panels to be installed	Number of secondary door phone panels to be installed	Single calls from panel: each user has its own call button	Calls from panel in parallel: each user has several video door phones in the apartment	Intercom function: users can communicate with each other	Auto-on: users can switch the video door phone on also if no call is received	Monitor with CCTV cameras	Use of some door phones for audio service only	Use of devices in parallel with a video door phone	Distance between video door phones and video door unit from 300 to 1000 metres	Use of kits	DIAGRAM DESCRIPTION	DIAGRAM	PAG
1	0	0	0	√								√	COLLEGAMENTO DI MAX 2 VIDEOCITOFONI AD 1 VIDEOPORTIERE ELETTRICO	SV102-3146D	2
	0	0	0	√									CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION	SV102-2631E	4
	0	0	0	√					√				CONNECTION OF SEVERAL VIDEO DOOR PHONES AND HOUSE PHONES TO 1 VIDEO OUTDOOR STATION. Connection in the riser of a number of house phones with voice service only	SV102-1609E	6
	0	0	0	√			√	√					CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 OUTDOOR STATION EQUIPPED WITH A SEPARATE CCD TV CAMERA Possibility of automatic connection by the video door phones to the TV camera	SV102-3118C	10
	0	0	0	√			√	√					CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION Possibility of automatic activation of a second control tv camera	SV102-3119A	12
	0	0	0		√								CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION The video outdoor station calls the 4 video door phones in parallel with concurrent power-on	SV102-2066D	8
	0	0	0		√	√							CONNECTION OF 3 INTERCOM VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT Single call from outside with concurrent power-on	SV102-2970D	24
	0	0	0		√	√							CONNECTION OF MAXIMUM 9 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT Single call from the outside with concurrent power-on	SV102-2972D	26
	0	0	0	√							√		CONNECTION OF N VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT Distance between video door phone and video door unit in the range from 300 to 1000 metres	SV102-1241D	36
	0	0	K	√									CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO OUTDOOR STATION Each columns is also connected to its own secondary outdoor station	SV102-2935E	22
	0	1	0	√									CONNECTION OF SEVERAL VIDEO DOOR PHONE GROUPS TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT	SV102-2934C	16
	K	0	0	√									CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO A MAIN VIDEO OUTDOOR STATION Each column is connected to 1 proper secondary video outdoor station	SV102-3079A	20
2	0	0	0	√									CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 2 VIDEO OUTDOOR STATIONS	SV102-2892D	14
	0	0	0		√	√							CONNECTION OF 3 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 2 ELECTRICAL VIDEO DOOR UNITS The video outdoor stations call the video door phones in parallel with concurrent power-on	SV102-3257A	28
4	0	0	0	√									CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 4 VIDEO OUTDOOR STATIONS	SV102-3078B	18
					√								CONNECTION OF A CALL REPEATER RELAY IN PARALLEL TO THE VIDEO DOOR PHONE	SV102-0782D	31
					√								CONNECTION OF 3 VIDEO DOOR PHONE EXTENSIONS IN PARALLEL TO A SYSTEM WITH VIDEO DOOR UNIT The video door phones are called at the same time	SV102-2132E	32
					√	√							CONNECTION OF 3 INTERCOM VIDEO DOOR PHONE EXTENSIONS TO A SYSTEM WITH VIDEO DOOR UNIT Single call from outside with concurrent power-on	SV102-1349E	34
										√			CONNECTION IN PARALLEL OF 1 VIDEO DOOR PHONE AND 1 DOOR PHONE	SV102-1574C	30
										√			CONNECTION OF A CALL REPEATER RELAY IN PARALLELTO THE VIDEO DOOR PHONE	SV102-1469D	30

K = number of columns with panel

NOTE: *The diagrams shown in this table can be made using Sinthesi, K-Steel, 725 panel models.*

WITH COLOUR CAMERA

Number of main video door phone panels to be installed	Number of video door phone secondary panels to be installed	Number of main door phone panels to be installed	Single calls from panel: each user has its own call button	Calls from panel in parallel: each user has several video door phones in the apartment	Intercom function: users can communicate with each other	Auto-on: users can switch the video door phone on also if no call is received	Monitor with CCTV cameras	Use of devices in parallel with a video door phone	Use of free-hands Utopia video door phone	Door open indicator on video door phone	DIAGRAM DESCRIPTION	DIAGRAM	PAG
											LIST OF AVAILABLE FUNCTIONS		
1	0	0	√								CONNECTION OF SEVERAL COLOURS VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION	SV102-3063A	38
1	0	0	√						√	√	CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 DOOR UNIT Door open indicator on video door phones	SV102-3228A	40
1	0	0	√		√						CONNECTION OF 3 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT	SV102-3219	46
1	0	0	√			√	√				CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 OUTDOOR STATION EQUIPPED WITH A SEPARATE CCD TV CAMERA Possibility of automatic connection by the video door phones to the TV camera	SV102-3118C	10
1	0	0	√			√	√		√		CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION Possibility of automatic activation of a second control tv camera	SV102-3119A	12
1	0	0		√	√						CONNECTION OF 2 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT Single call from outside with concurrent power-on	SV102-3220	48
1	0	K	√						√		CONNECTION OF N FREE-HANDS COLOUR VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO DOOR UNIT Each column is additionally connected to a specific secondary door unit	SV102-3235	44
1	1	0	√						√		CONNECTION OF N FREE-HANDS UTOPIA COLOUR VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT AND TO 1 DOOR UNIT	SV102-3227	42
				√							CONNECTION OF A CALL REPEATER RELAY IN PARALLEL TO THE VIDEO DOOR PHONE	SV102-0782D	31
							√				CONNECTION OF A CALL REPEATER RELAY IN PARALLELTO THE VIDEO DOOR PHONE	SV102-1469D	30
							√				CONNECTION IN PARALLEL OF 1 VIDEO DOOR PHONE AND 1 DOOR PHONE	SV102-1574C	30

K = number of columns with panel

NOTE: *The diagrams shown in this table can be made using Sinthesi, K-Steel, 725 panel models.*

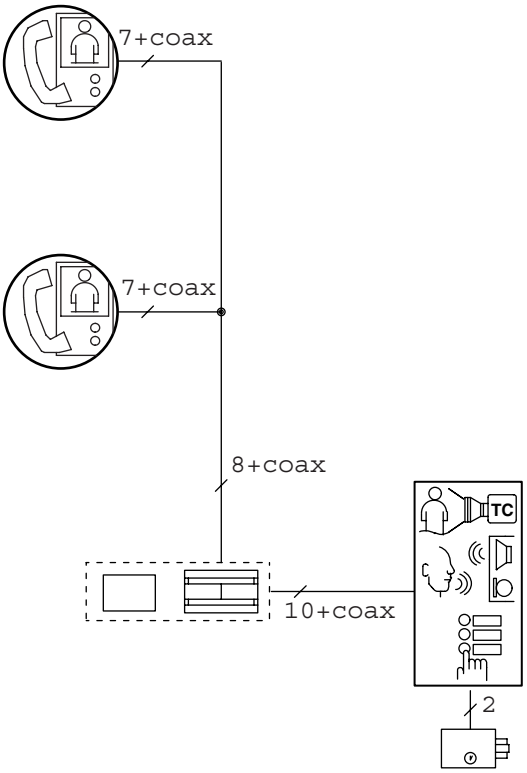
coax

CONNECTION OF MAX. 2 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT

urmet DOMUS

FUNCTION

This system allows connection between the video outdoor station and the various video door phones situated in the apartments. When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding video door phone loudspeaker and, after about 7 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset. At the end of the conversation, the electric lock can be operated by pressing the key ( ).
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second video door phone is called before the end of the 60 seconds, the first video door phone will automatically go off and the latter comes on. This feature guarantees secrecy of vision.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3146D:

"COAX" VIDEO DOOR PHONE KIT DIAGRAMS

N. 1 One-family kit (1 button)
with Atlantico video door phone **Ref. 1702/611**
consisting of:
- Sinthesi camera with integrated door unit and 1 calling button Ref. 1745/81
- 1 Atlantico video door phone Ref. 1702/1 with bracket Ref. 1202/90
- 1 flush mounting box for 1 module Ref. 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

N. 1 One-family kit (1 button)
with Artico video door phone **Ref. 1705/621**
consisting of:
- Sinthesi camera with integrated door unit and 1 calling button Ref. 1745/81
- 1 Artico video door phone Ref. 1705/1 with bracket Ref. 1705/90
- 1 flush mounting box for 1 module Ref. 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

N. 1 Two-family kit (2 buttons)
with Atlantico video door phone **Ref. 1702/612**
consisting of:
- Sinthesi camera with integrated door unit and 2 calling buttons Ref. 1745/82
- 2 Atlantico video door phones Ref. 1702/1 with bracket Ref. 1202/90
- 1 flush mounting box for 1 module Ref. 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

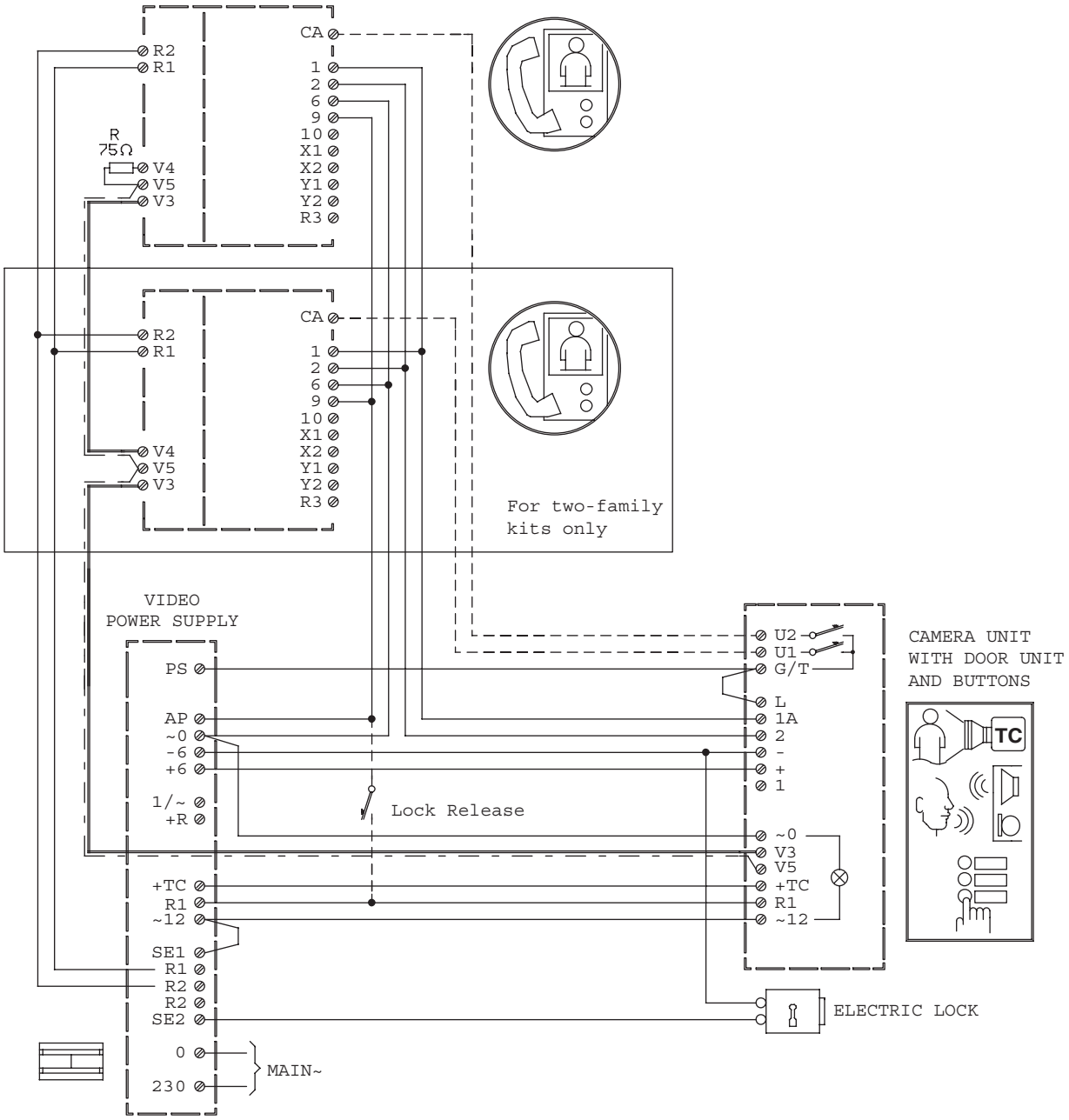
N. 1 Two-family kit (2 buttons)
with Artico video door phone **Ref. 1705/622**
consisting of:
- Sinthesi camera with integrated door unit and 2 calling buttons Ref. 1745/82
- 2 Artico video door phones Ref. 1705/1 with bracket Ref. 1705/90
- 1 flush mounting box for 1 module Ref. 1145/51
- Module holder with frame for 1 module Ref. 1145/61
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

DIAGRAM NOTES

(see section 1)

VX.003

SV102-3146D


R2
R1
R
75Ω
V4
V5
V3
CA
1
2
6
9
10
X1
X2
Y1
Y2
R3
For two-family kits only
VIDEO POWER SUPPLY
PS
AP
~0
-6
+6
1/~
+R
+TC
R1
~12
SE1
R1
R2
R2
SE2
0
230
MAIN~
Lock Release
U2
U1
G/T
L
1A
2
-
+
1
~0
V3
V5
+TC
R1
~12
CAMERA UNIT WITH DOOR UNIT AND BUTTONS
TC
ELECTRIC LOCK

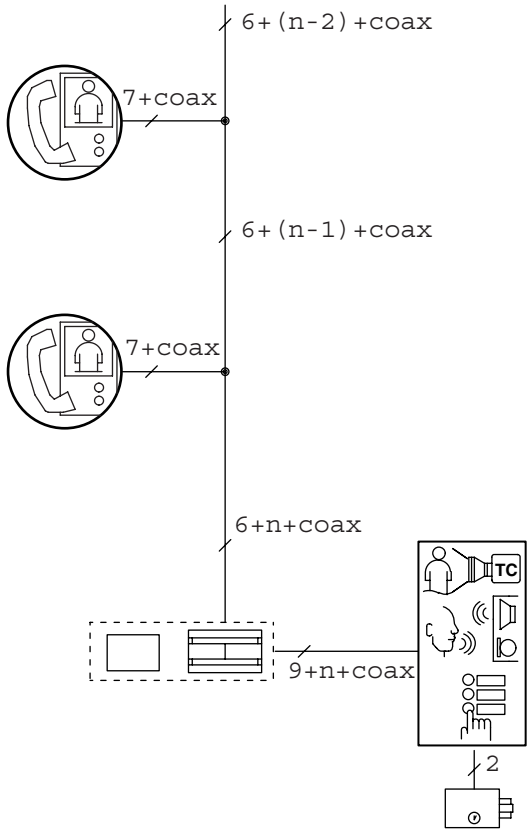
coax

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION

urmet DOMUS

FUNCTION

This system allows connection between the video outdoor station and the various video door phones situated in the apartments. When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding video door phone loudspeaker and, after about 7 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset. At the end of the conversation, the electric lock can be operated by pressing the key ( ).
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second video door phone is called before the end of the 60 seconds, the first video door phone will automatically go off and the latter comes on. This feature guarantees secrecy of vision.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2631E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Video distributor	**Ref. 1794/4A**

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION

coax

SV102-2631E

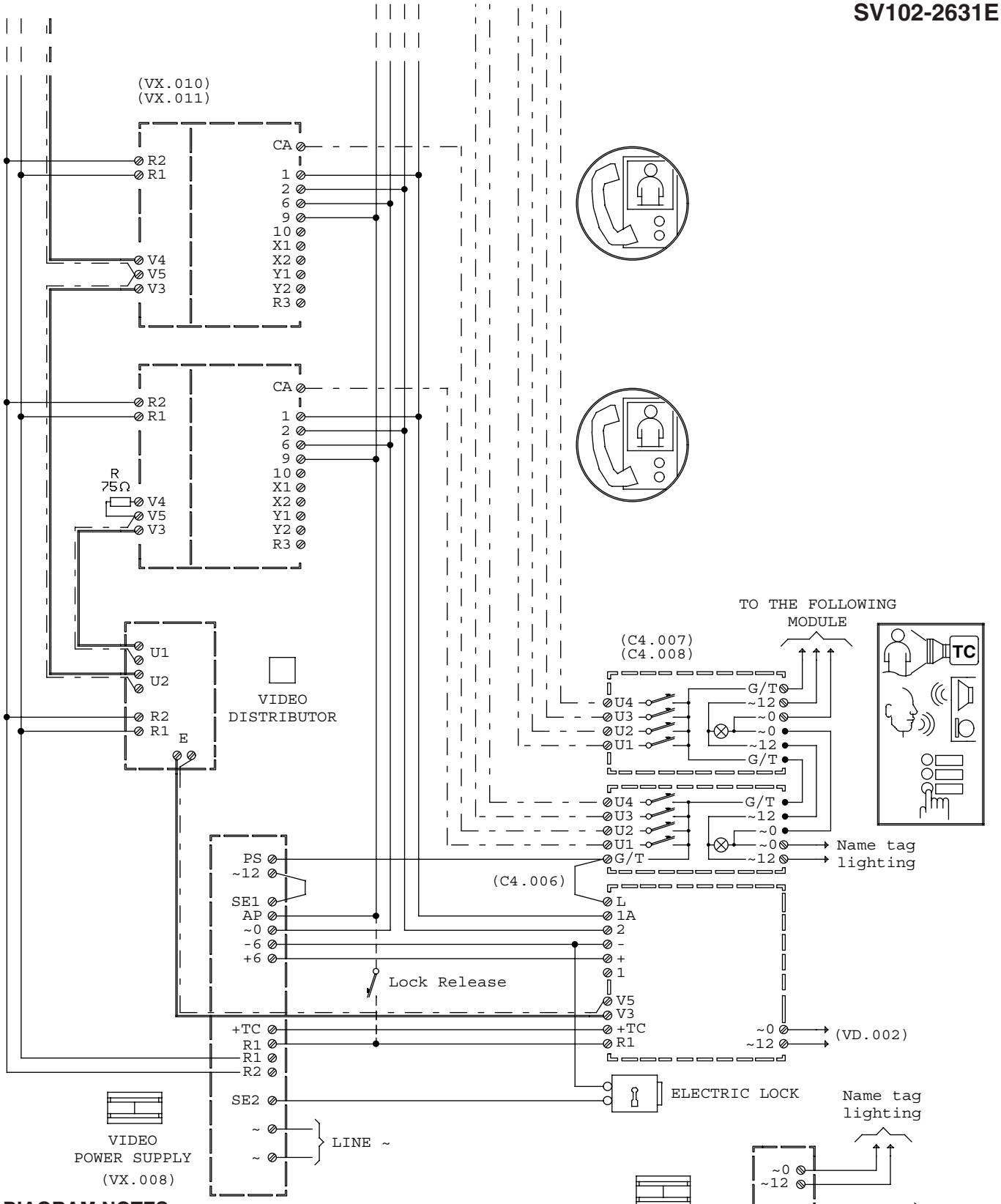


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 VD.002 VX.003
VX.008 VX.010 VX.011 VX.014

coax

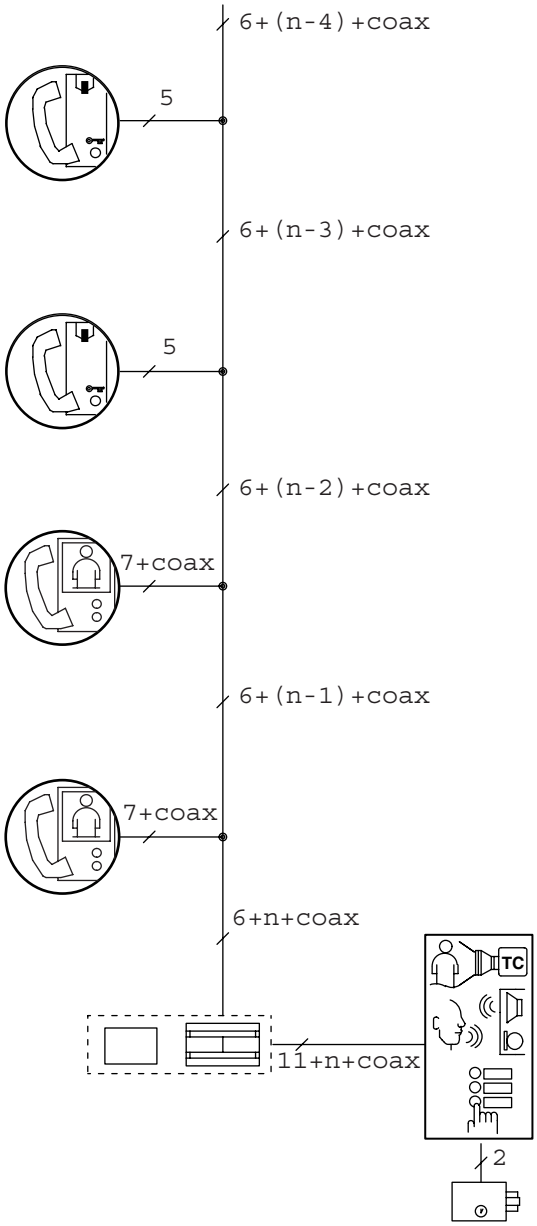
CONNECTION OF SEVERAL VIDEO DOOR PHONES AND HOUSE PHONES TO 1 VIDEO OUTDOOR STATION

Connection in the riser of a number of house phones with voice service only

urmet DOMUS

FUNCTION

This system has the same operation features as the basic system (Scheme SV102-2631) with the possibility to add simple house phones onto the same riser with phonic service only.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-1609E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

DOOR PHONE REFERENCES

N. X	Door phone Mod. Utopia	**Ref. 1134/1**
N. X	Door phone Mod. Atlantico	**Ref. 1133**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Video distributor	**Ref. 1794/4A**

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONES AND HOUSE PHONES TO 1 VIDEO OUTDOOR STATION

Connection in the riser of a number of house phones with voice service only

coax

SV102-1609E

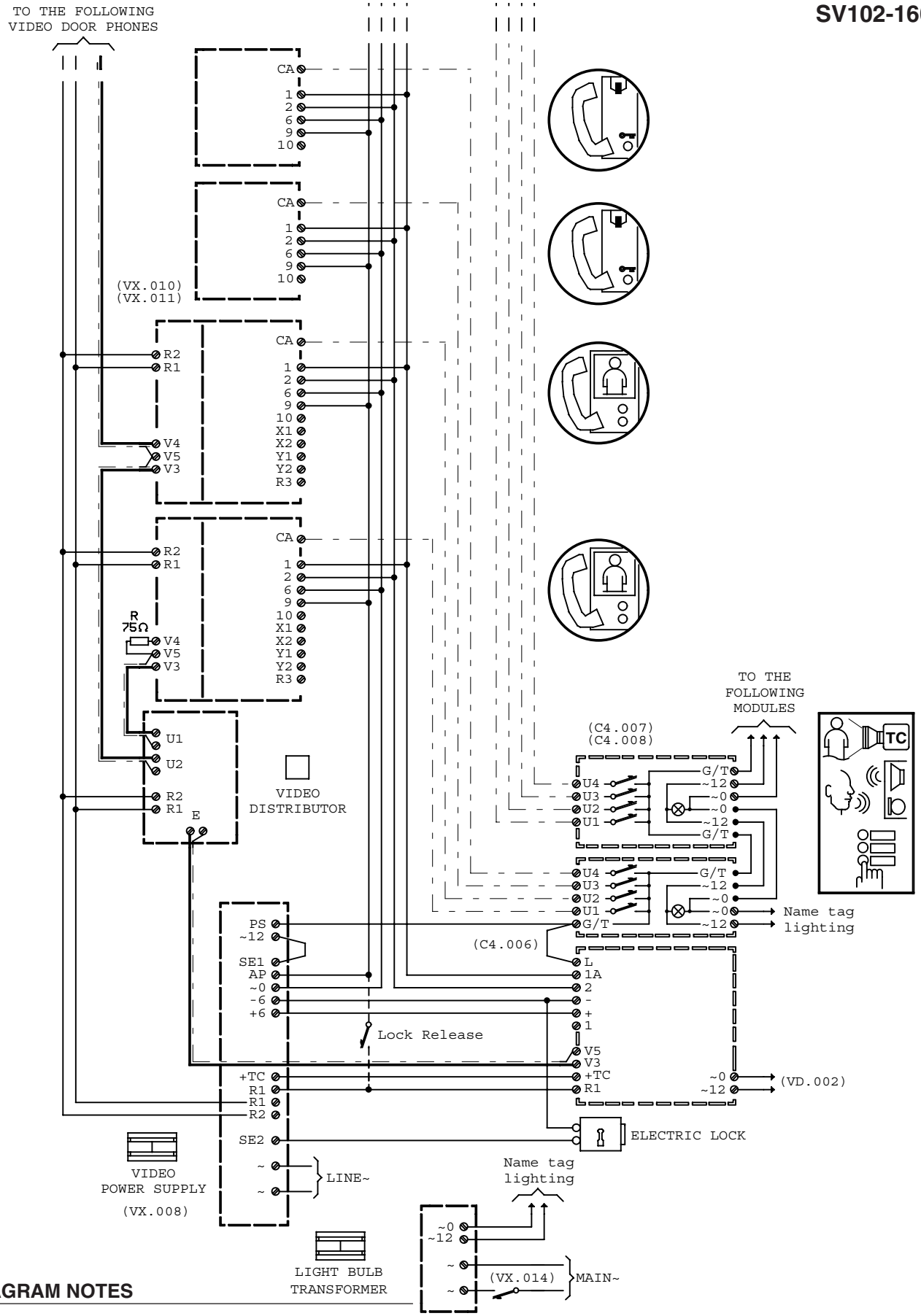


DIAGRAM NOTES

(see section 1)

VX.003 VX.008 VX.010 VX.011

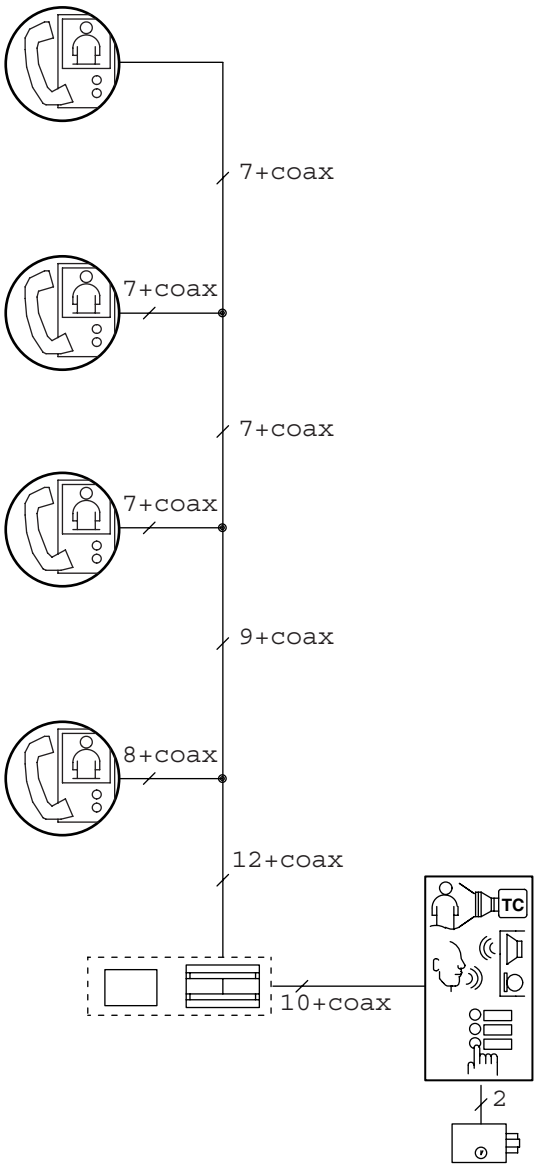
coax

CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION
The video outdoor station calls the 4 video door phones in parallel with concurrent power-on

urmet DOMUS

FUNCTION

This system is particularly suited for detached houses where it is necessary to call and activate 4 video door phones concurrently using a single call key.
As the video power supply can power only one video door phone, video door phones 2, 3 and 4 must be powered with a local power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2066D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 4	Video door phones	**Ref. 1702/1**
N. 4	Bracket	**Ref. 1202/90**

or

Artico model

N. 4	Video door phones	**Ref. 1705/1**
N. 4	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with camera and door unit	**Ref. 1755/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 1 button	**Ref. 725/101**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. 1	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Power supply (2)	**Ref. 789/3**
N. 1	Video distributor	**Ref. 1794/4A**
N. 1	Power supply (1)	**Ref. 789/2**

urmet DOMUS

CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION
The video outdoor station calls the 4 video door phones in parallel with concurrent power-on

coax

SV102-2066D

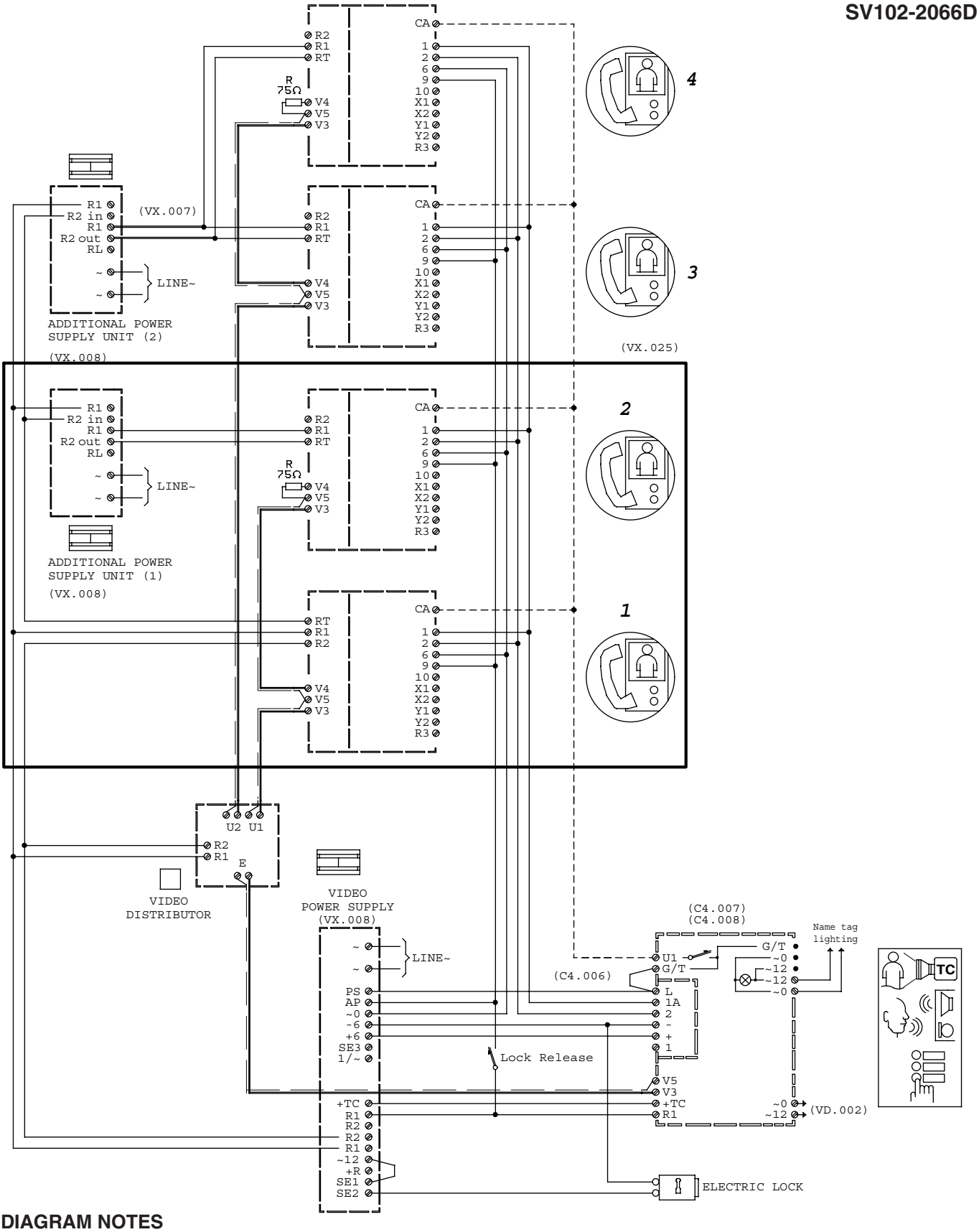


DIAGRAM NOTES

(see section 1)
C4.006
Sinthesi models only:
Connect jumper L with G/T

VX.003 VX.008 VX.023 VX.025

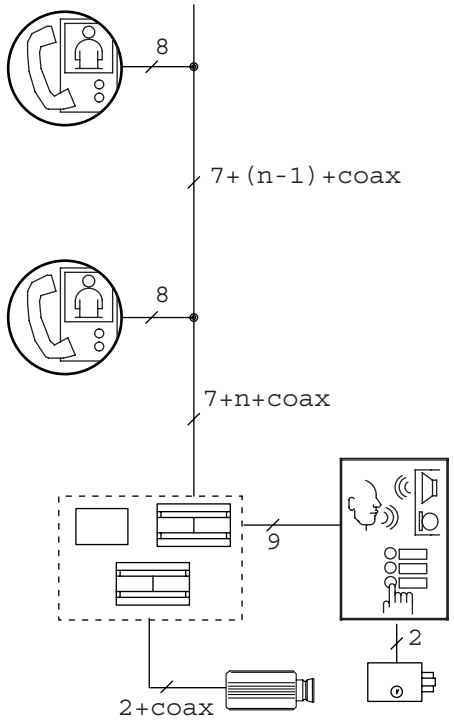
coax

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 OUTDOOR STATION EQUIPPED WITH A SEPARATE CCD TV CAMERA
Possibility of automatic connection by the video door phones to the TV camera

urmet DOMUS

FUNCTION

This system allows connection between the video outdoor station and the various video door phones situated in the apartments.
When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding video door phone loudspeaker and, after about 7 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset. At the end of the conversation, the electric lock can be operated by pressing the key.
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second video door phone is called before the end of the 60 seconds, the first video door phone will automatically go off and the latter comes on.
This feature guarantees secrecy of vision.
Press button on the video door phone to switch on the camera also without having received a call.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3118C:

VIDEO DOOR PHONE REFERENCES

BLACK/WHITE

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

COLOUR

Atlantico model

N. X	Video door phones	**Ref. 1702/40**
N. X	Bracket	**Ref. 1202/90**

or

Utopia model

N. X	Video door phones direct vision	**Ref. 1703/1**
N. X	Bracket	**Ref. 1704/90**

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panels with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Relay box	**Ref. 788/52**
N. 1	Video distributor	**Ref. 1794/4A**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008
VX.003 VX.008
VX.010 VX.011
VX.012 VX.014

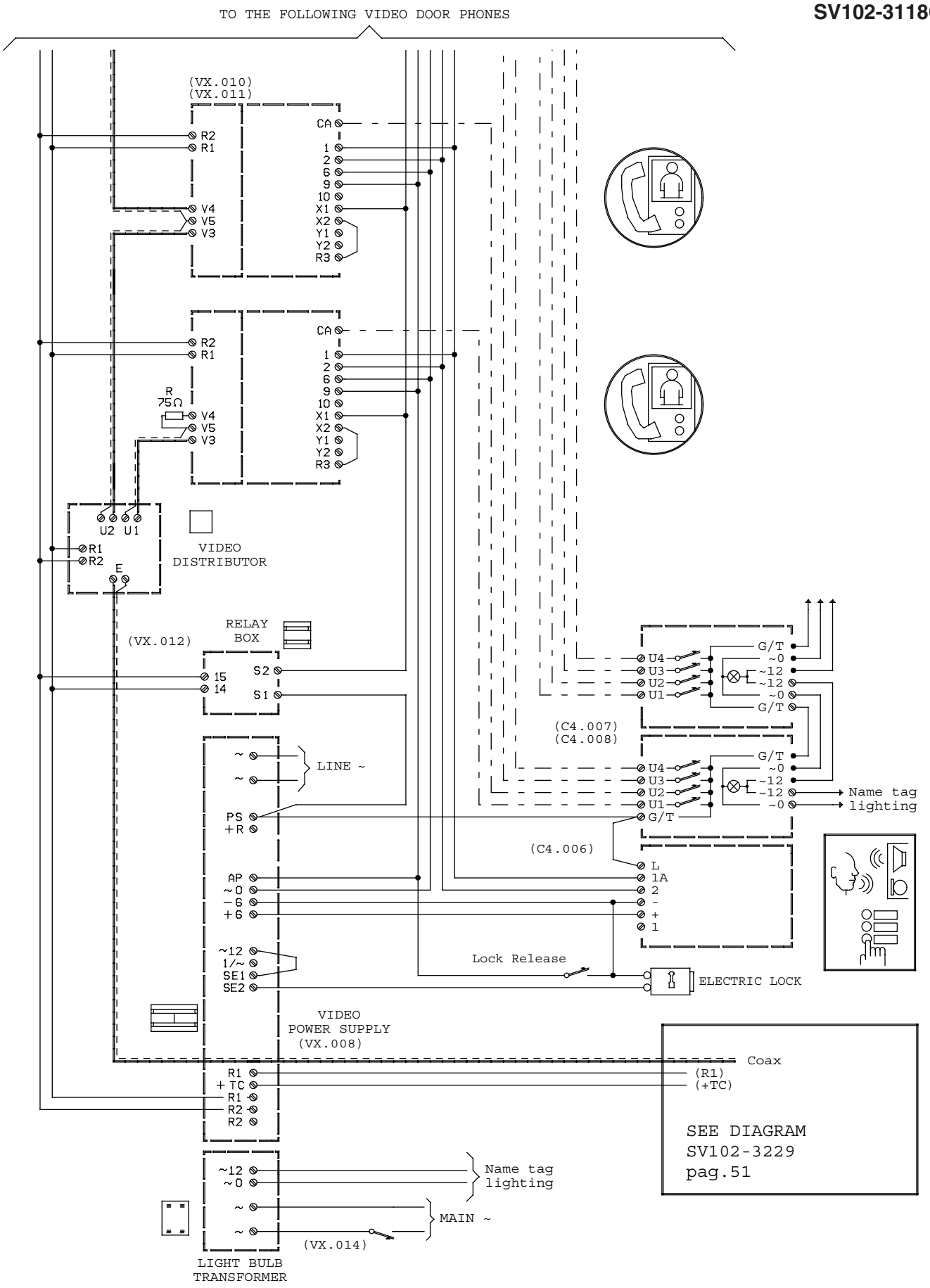
urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 OUTDOOR STATION EQUIPPED WITH A SEPARATE CCD TV CAMERA

Possibility of automatic connection by the video door phones to the TV camera

coax

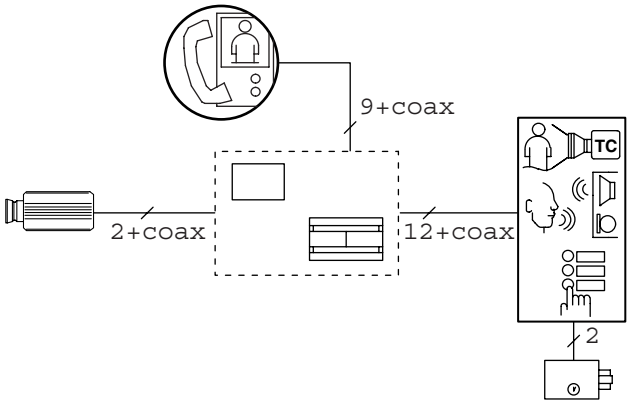
SV102-3118C



CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION
Possibility of automatic activation of a second control tv camera

FUNCTION

This system is particularly suitable in one-family villas. The video door phone, besides being connected to a TV camera unit, can self-insert on a secondary control TV camera by pressing the service button ◇.
An internal closed TV circuit system is thus made, which allows the control of a room (i.e. children's room) and the outside entrance at any time.
The secondary TV camera is turned on for about a minute, after which it automatically turns off. In any case, a call from the video outdoor station automatically switches the video door phone to the external TV camera unit thus excluding the second TV camera; in order to reset the latter, it is sufficient to press the service key ◇ when the conversation with the video outdoor station is over.
With the other service key ◯ it is possible to self-insert also on the video outdoor station.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3119A:

VIDEO DOOR PHONE REFERENCES

BLACK/WHITE

Atlantico model
N. 1 Video door phones **Ref. 1702/1**
N. 1 Bracket **Ref. 1202/90**

or

Artico model
N. X Video door phones **Ref. 1705/1**
N. X Bracket **Ref. 1705/90**

COLOUR

Atlantico model
N. 1 Video door phones **Ref. 1702/40**
N. 1 Bracket **Ref. 1202/90**

or

Utopia model
N. 1 Video door phones direct vision **Ref. 1703/1**
N. 1 Bracket **Ref. 1704/90**

or

Utopia free-hands model
N. 1 Video door phones direct vision **Ref. 1703/2**
N. 1 Bracket **Ref. 1704/91**

VIDEO OUTDOOR STATION REFERENCES

BLACK/WHITE

Sinthesi model
N. 1 Module with camera and door unit **Ref. 1745/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model
N. 1 Module with camera and door unit **Ref. 1755/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

or

725 model
N. 1 Panel with 1 button **Ref. 725/101**
N. 1 Amplified door unit **Ref. 1128/500**
N. 1 Camera **Ref. 725/600**
N. 1 Front plate **Ref. 725/601**

For the panels references and the accessories refer to "Panels with anodized Aluminium front plate Mod. 725" section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model
N. 1 Front case for video door unit **Ref. 1728/20-/21**
N. 1 Door unit with camera **Ref. 1728/80**
N. 1 Button **Ref. 1128/1-/2**
N. X Blank module **Ref. 1128/30-/31**

For boards of accessories refer to "Wall Mounted Panel Mod. 1128" section of Doorphone and Videodoorphone system product technical manual.

COLOUR

Sinthesi model
N. 1 Module with camera and door unit **Ref. 1745/41**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model
N. 1 Module with camera and door unit **Ref. 1755/40**
N. 1 Module with door unit **Ref. 1155/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1 Video power supply **Ref. 789/5B**
N. 1 Relay **Ref. 788/51**

urmet DOMUS

CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION
Possibility of automatic activation of a second control tv camera

coax

SV102-3119A

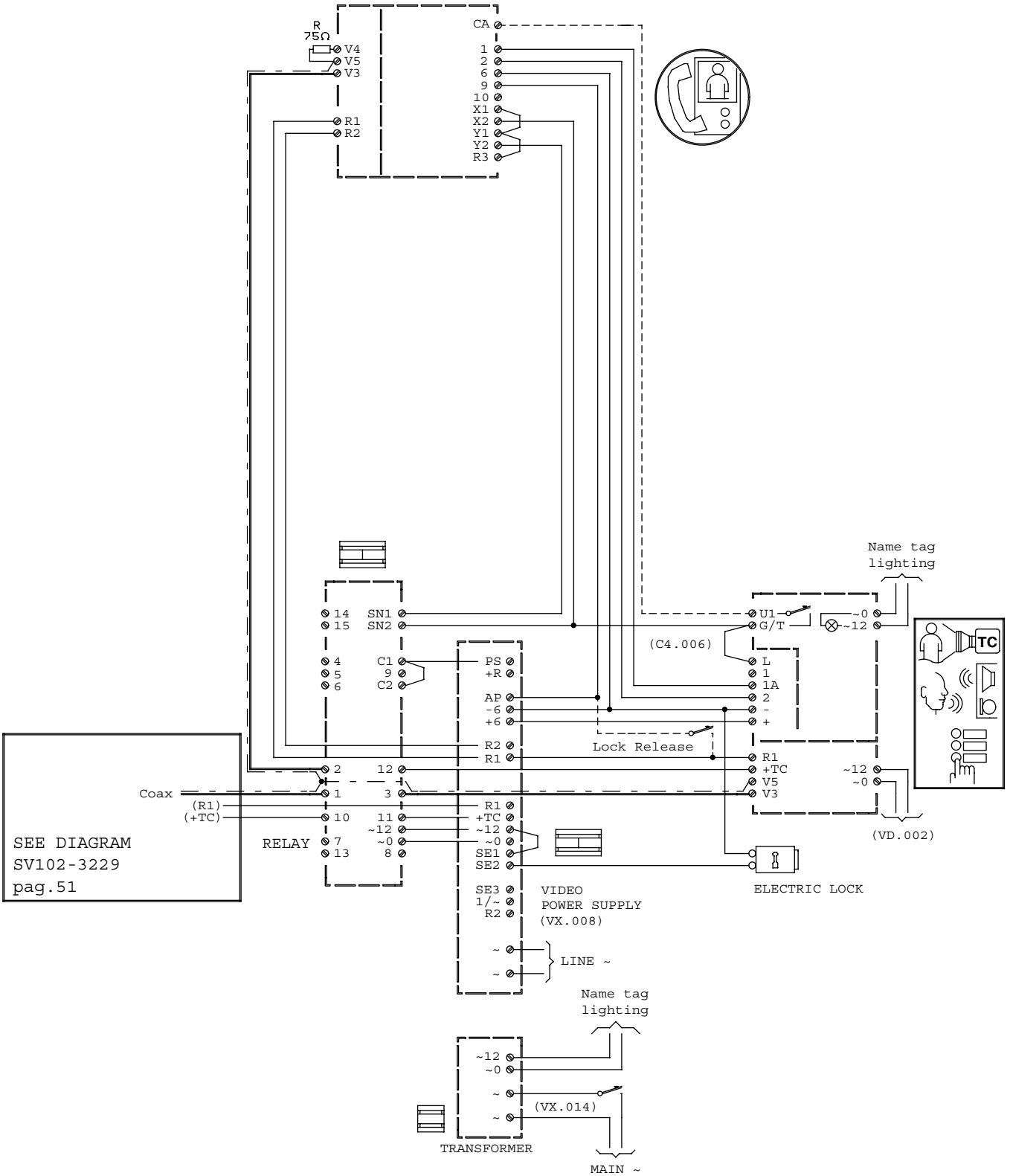


DIAGRAM NOTES

(see section 1)

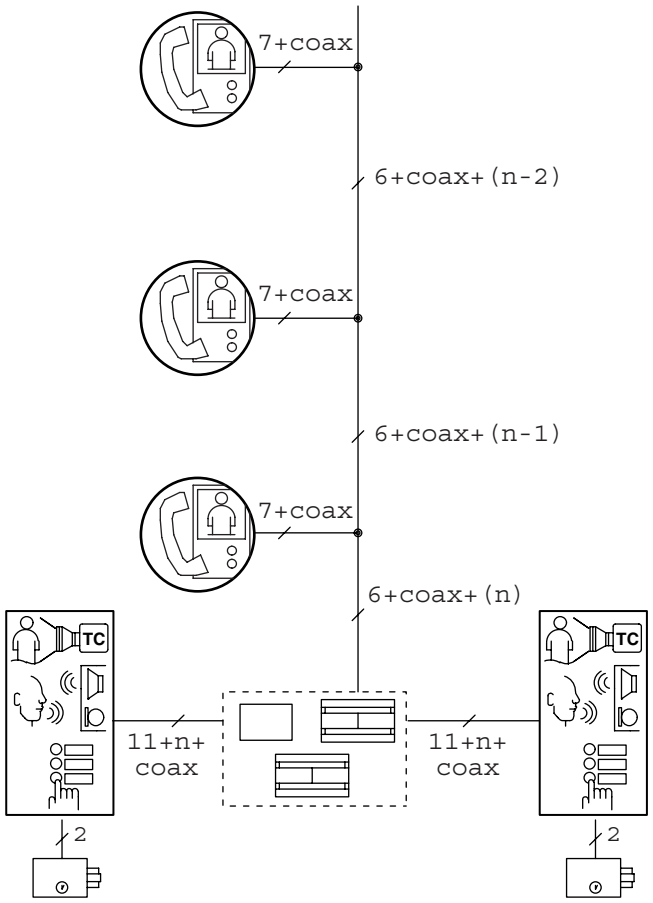
C4.006
Sinthesi models only:
Connect jumper L with G/T

VX.003 VX.008 VX.014

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 2 VIDEO OUTDOOR STATIONS

FUNCTION

This system allows the connection of a column of video door phones to 2 video outdoor stations with automatic switching.
When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 8 seconds.
During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service.
At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key.
If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. It is not possible therefore to communicate with the 2 video outdoor stations at the same time in that they operate alternatively and are mutually exclusive.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2892D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 2	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 2	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1128/500**
N. 2	Camera	**Ref. 725/600**
N. 2	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for video door unit	**Ref. 1728/20-/21**
N. 2	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Relay box	**Ref. 788/51**
N. 1	Video distributor	**Ref. 1794/4A**

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 2 VIDEO OUTDOOR STATIONS

SV102-2892D

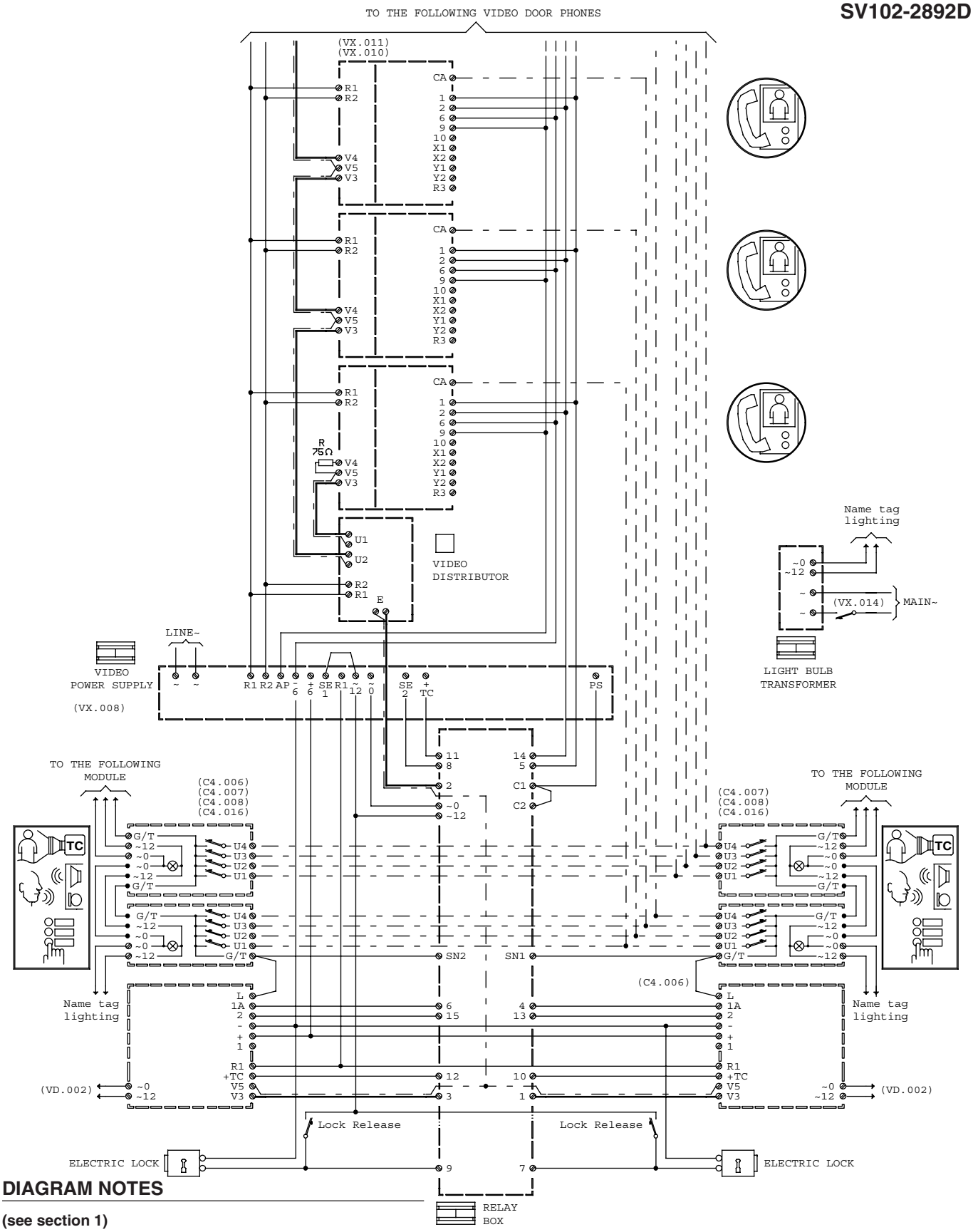


DIAGRAM NOTES

(see section 1)

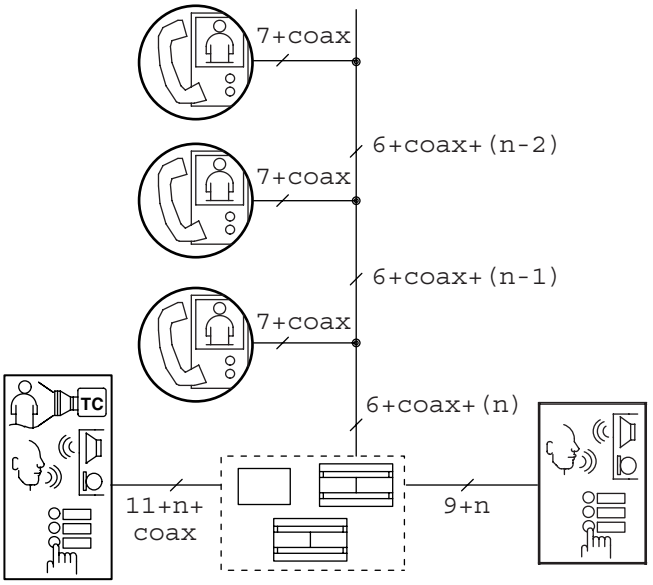
C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 C4.016 VD.002
VX.003 VX.008 VX.010 VX.011 VX.014

CONNECTION OF SEVERAL VIDEO DOOR PHONE GROUPS TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT

FUNCTION

This type of system is used to connect a video door phone column to an automatically switching video door unit or door unit.
A two-tone electronic call is sent to the corresponding video door phone speaker when a call button is pressed on either of the two panels; the picture appears on the screen after approximately seven seconds if the call was made by the video door unit.
The video door phone will not light up and the video door phone will work as a normal door phone if the call is made from thcamera unit and panel.
Press at the end of the call to open the concerned door electrical lock only.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2934C:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panels with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

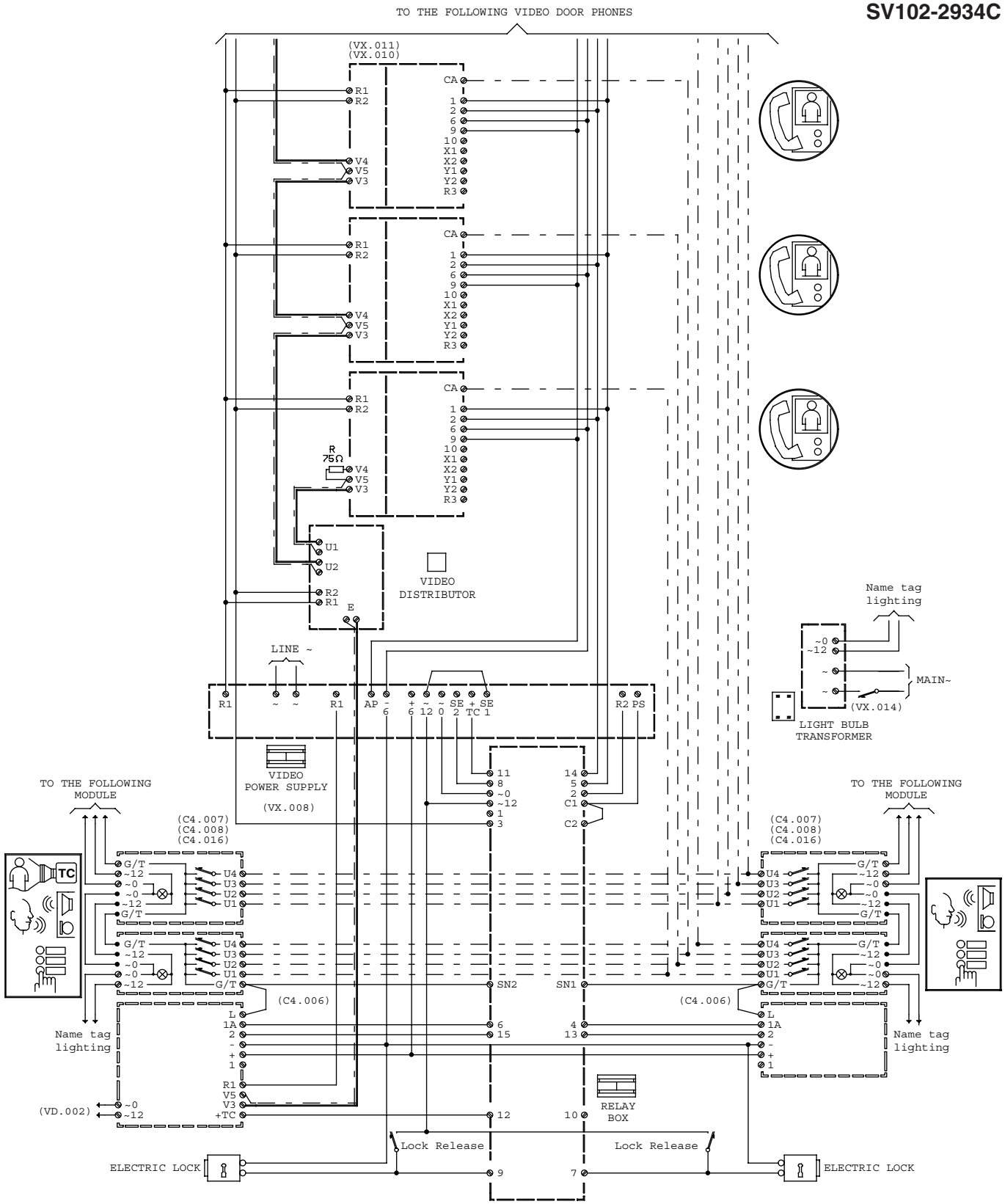
For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE GROUPS TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT

coax

SV102-2934C



POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Relay box	**Ref. 788/51**
N. 1	Video distributor	**Ref. 1794/4A**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 C4.016 VD.002 VX.008 VX.010 VX.011 VX.014

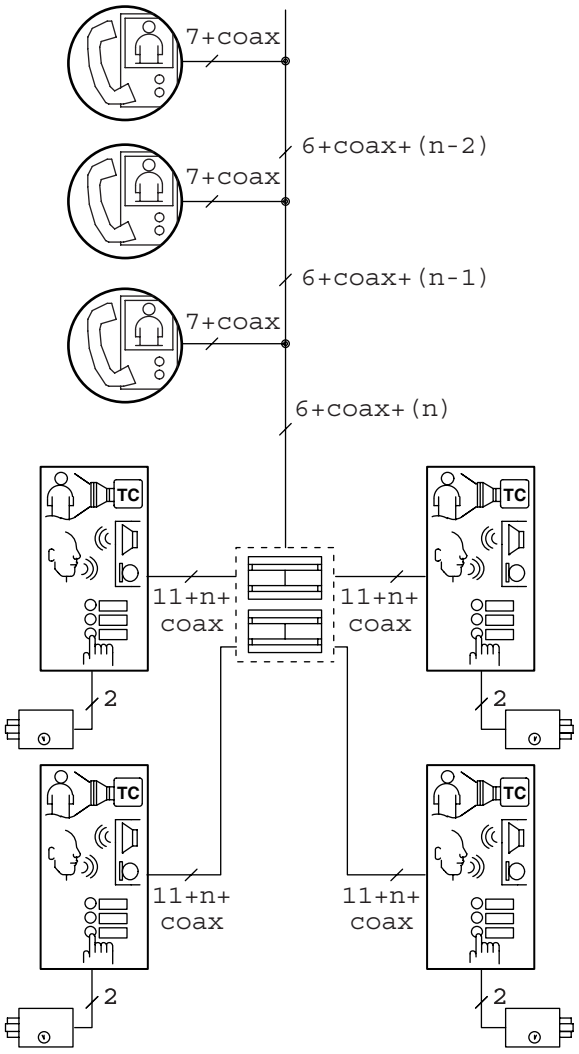
coax

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 4 VIDEO OUTDOOR STATIONS

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 4 video outdoor stations with automatic switching. Therefore, it is suitable for a building with 4 entrances common to all apartments. When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 7 seconds. During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service. At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key. If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. In this system it is not possible to speak simultaneously from the four outdoor stations because they work one at a time in automatic switching.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3078B:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 4	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 4	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 4	Panel with N buttons	**Mod. 725**
N. 4	Amplified door unit	**Ref. 1128/500**
N. 4	Camera	**Ref. 725/600**
N. 4	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 4	Front case for video door unit	**Ref. 1728/20-/21**
N. 4	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Relay box	**Ref. 788/54**

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 4 VIDEO OUTDOOR STATIONS

SV102-3078B

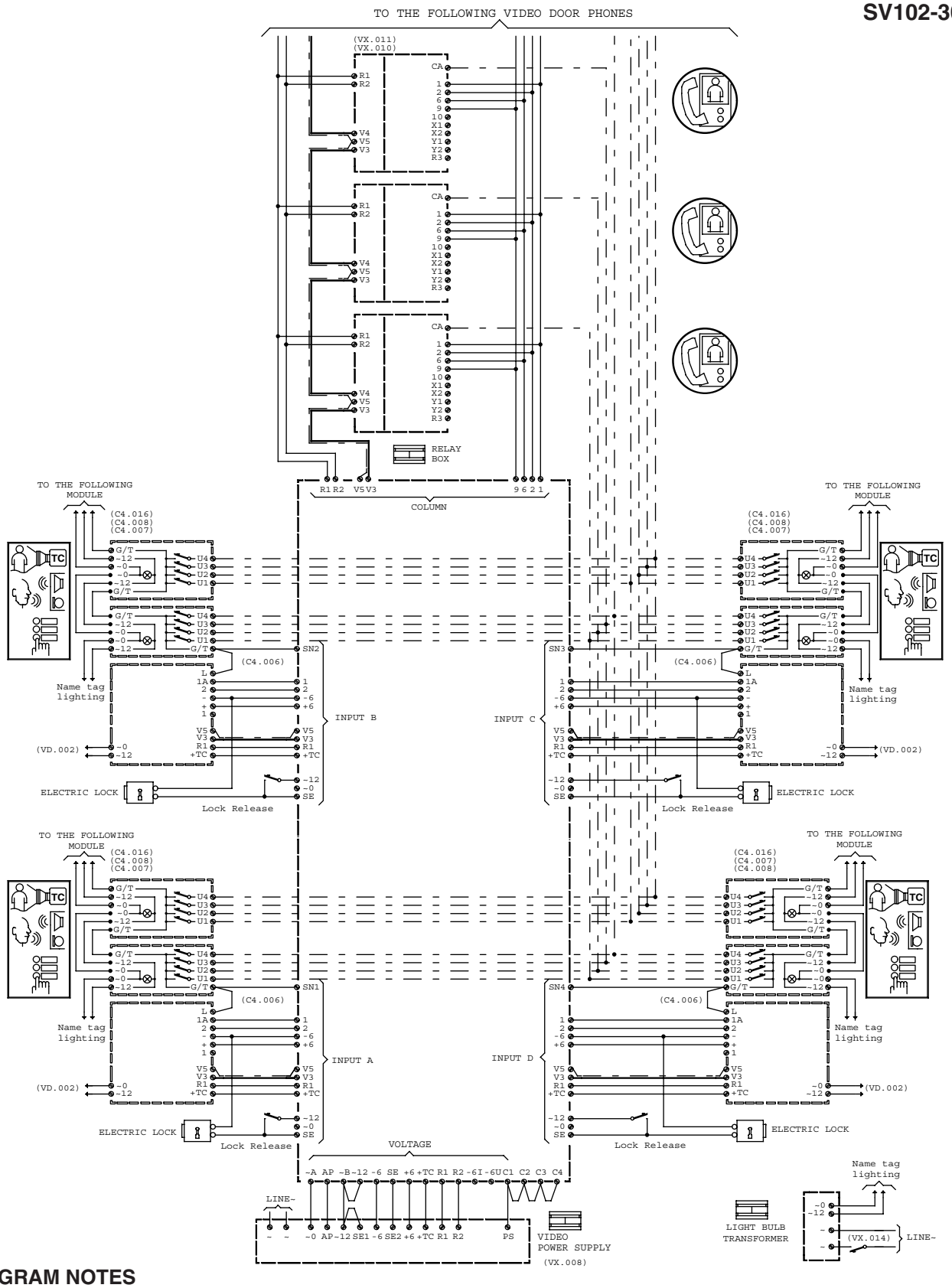


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 C4.016 VD.002
VX.003 VX.008 VX.010 VX.011 VX.014

coax

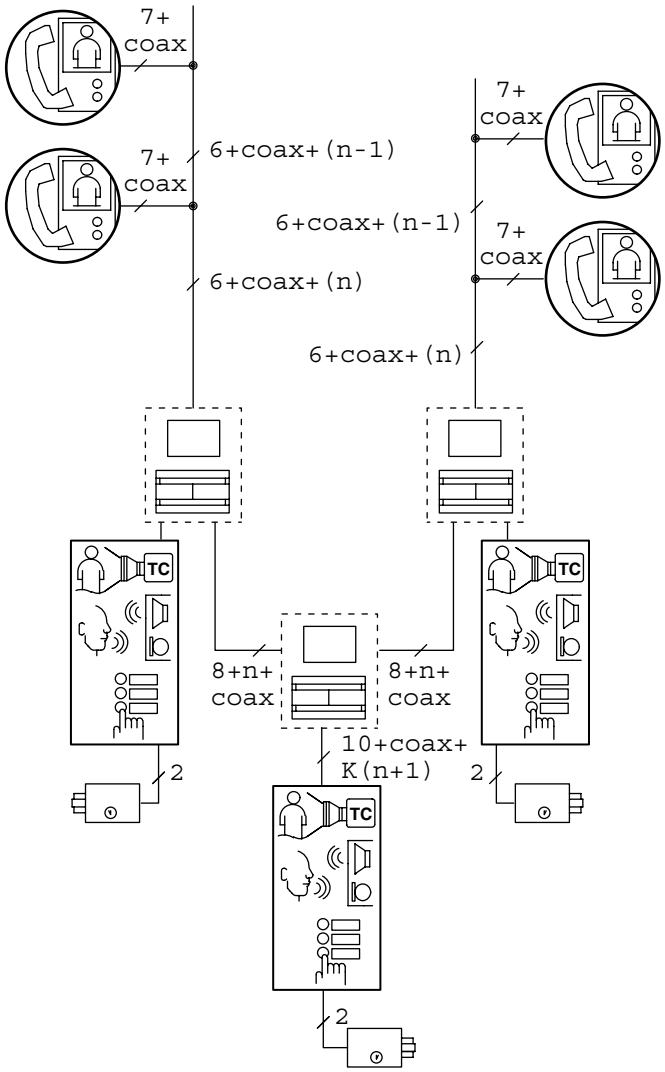
CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO A MAIN VIDEO OUTDOOR STATION
Each column is connected to 1 proper secondary video outdoor station

urmet DOMUS

FUNCTION

This system is particularly suitable for residential properties where it is necessary to connect the single villas to a proper video outdoor station and to a common one located at the main entry.

During calling the video door phone is automatically switched on the main video outdoor station or to the secondary one of its own group, by means of the switching relay. The services for secondary video outdoor stations are independent, so that they be realized simultaneously.
When the call is coming from the main video outdoor station, only the group of the called video door phone is switched on it, the other ones continue to service towards the secondary.



K= quantity of columns

EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3079A:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. K+1	Panel with N buttons	**Mod. 725**
N. K+1	Amplified door unit	**Ref. 1128/500**
N. K+1	Camera	**Ref. 725/600**
N. K+1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. K+1	Front case for video door unit	**Ref. 1728/20-/21**
N. K+1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. K+1	Video power supply	**Ref. 789/5B**
N. K+1	Relay box	**Ref. 788/51**
>1	Video distributor	**Ref. 1794/4A**

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO A MAIN VIDEO OUTDOOR STATION
Each column is connected to 1 proper secondary video outdoor station

coax

SV102-3079A

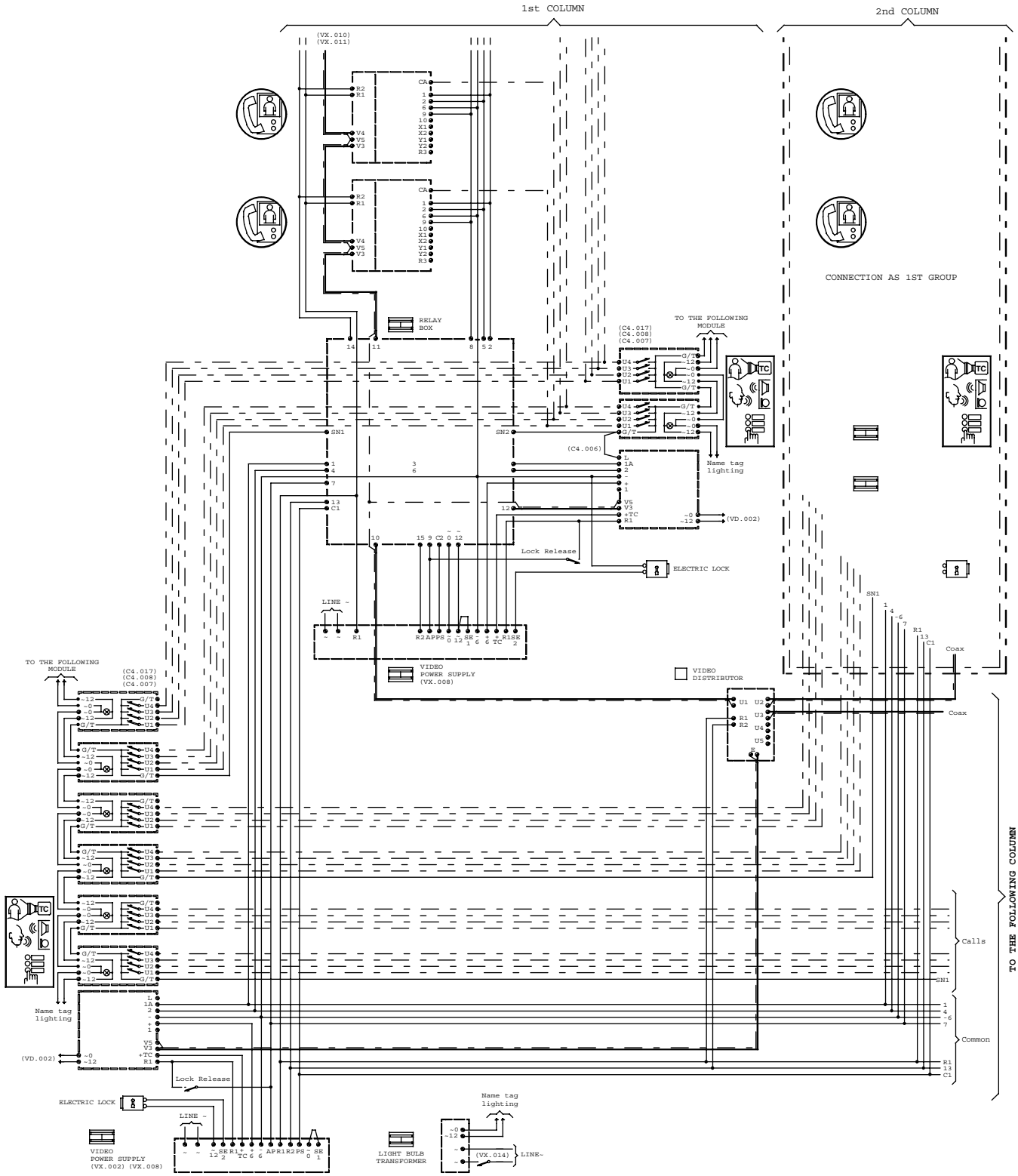


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

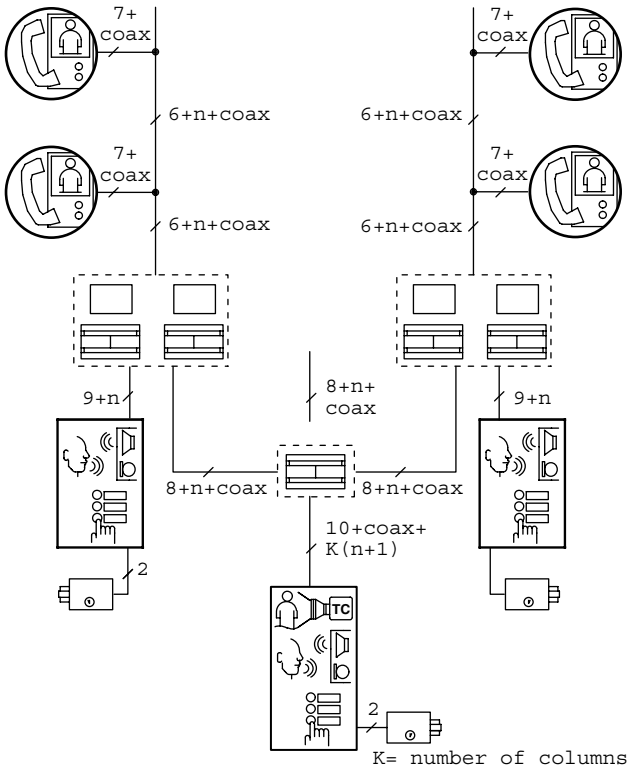
C4.007 C4.008 C4.017 VD.002
VX.001 VX.002 VX.003 VX.008 VX.014

CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO OUTDOOR STATION
Each columns is also connected to its own secondary outdoor station

FUNCTION

This system is particularly suitable for residential properties where it is necessary to connect the single villas to an own video outdoor station and to a common one located at the main entry.

During calling the interested video door phone is automatically swItched on the main video outdoor station or to the secondary one of its own group, by means of the switching relay. The services for secondary outdoor stations are independent, so that they can be realized simultaneously. When the call is coming from the main video outdoor station, only the group of the called video door phone is switched on it, the other ones continue to service the secondary.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2935E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K+1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. K+1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. K+1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. K+1	Panels with N buttons	**Mod. 725**
N. K+1	Amplified door unit	**Ref. 1128/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. K+1	Front case for door unit	**Ref. 1128/20-/21**
N. K+1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO OUTDOOR STATION
Each columns is also connected to its own secondary outdoor station

coax

SV102-2935E

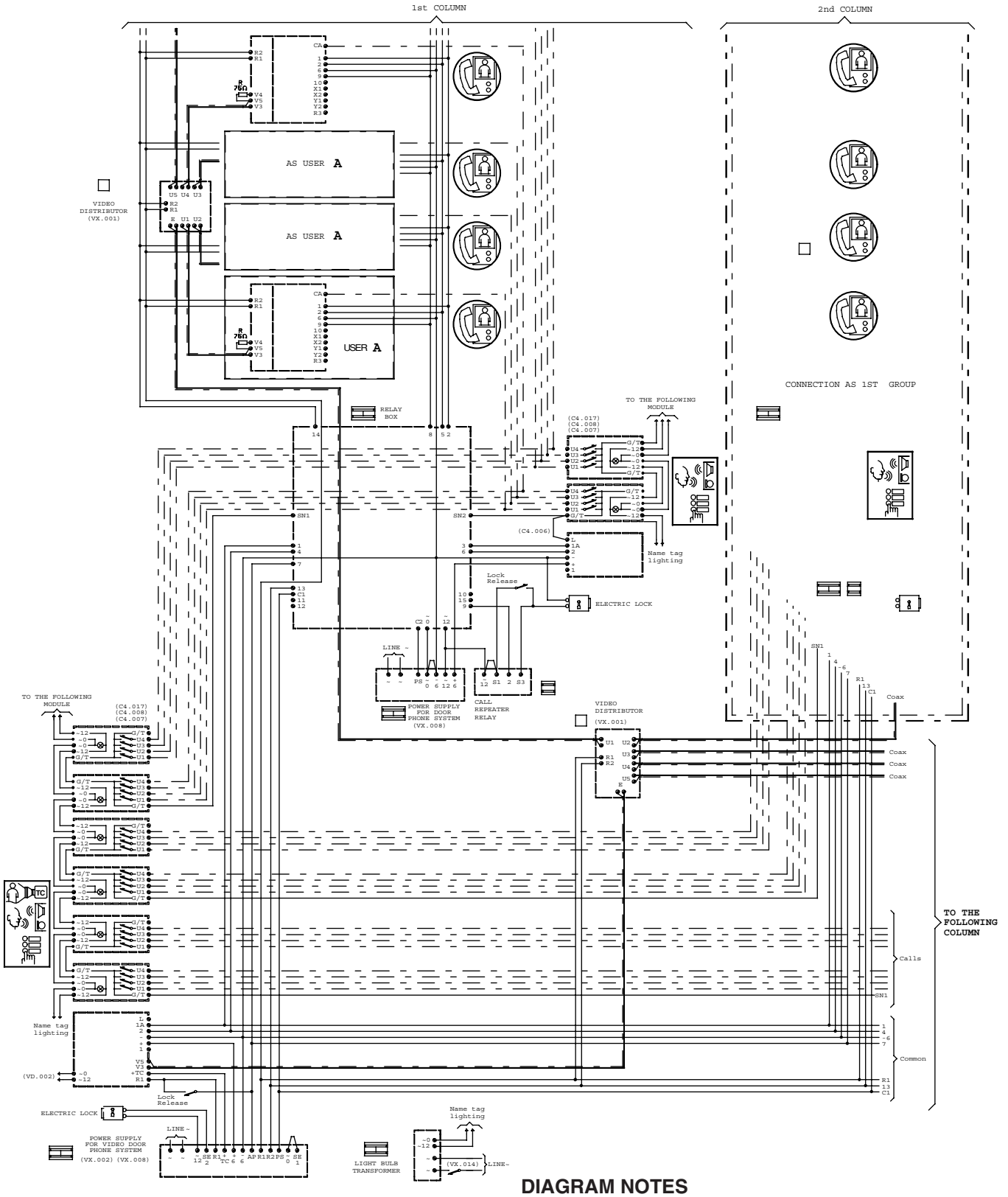


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007	**C4.008**	**VD.002**	**VX.001**
VX.002	**VX.008**	**VX.014**	**VX.034**

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. K	Door phone power supply	**Ref. 786/11**
N. K	Relay box	**Ref. 788/51**
N. K	Call repeater relay	**Ref. 788/52**
>1	Video distributor	**Ref. 1794/4A**

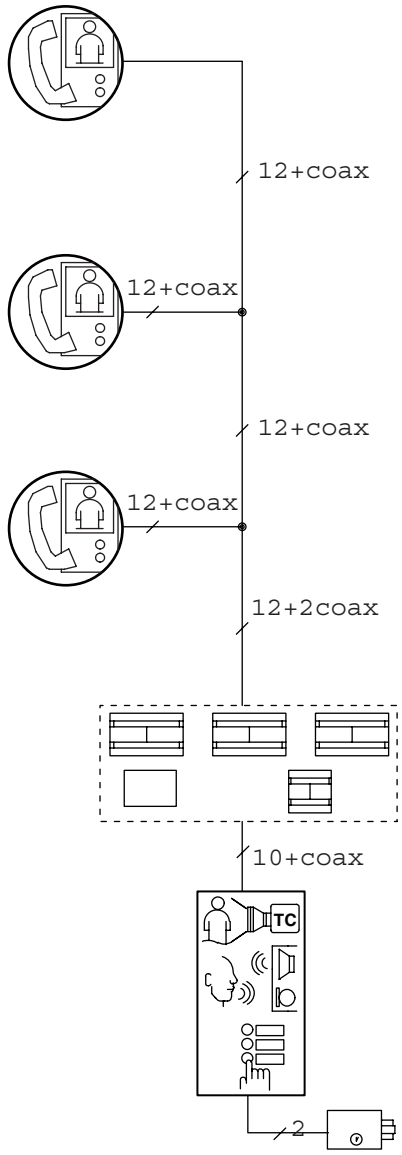
CONNECTION OF 3 INTERCOM VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT
Single call from outside with concurrent power-on

FUNCTION

This system is particularly suited for detached houses where the video door phones provide the intercom service and can also be called at the same time in parallel by the video outdoor station. Switching from one service to another is automatic and is assured during the call phase by a relay device.

When the intercom service is activated, listening to the conversation from the loudspeaking unit of the video outdoor station is excluded.
If a call is made from the video outdoor station during an intercom conversation, all the video door phones are automatically switched to the outside.

Extra buzzers are used for intercom calls; for external calls from the video outdoor station, the two-tone electronic call is sent to the loudspeaker of the handset of the video door phone concerned.
The ◯ and ◇ service keys are used for intercom calls.
When the video door phones are called in parallel by the video outdoor station, they switch on at the same time. At the end of the conversation, the electric lock is released pressing the key.
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2970D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 3	Video door phones	**Ref. 1702/1**
N. 3	Bracket	**Ref. 1202/90**

or

Artico model

N. 3	Video door phones	**Ref. 1705/1**
N. 3	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with camera and door unit	**Ref. 1755/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 1 button	**Ref. 725/101**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. 1	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Power supply	**Ref. 789/3**
N. 1	Impedance generator	**Ref. 789/51**
N. 1	Video distributor	**Ref. 1794/4A**
N. 3	Extra Buzzer	**Ref. 9854/52**
N. 1	Kit of 10 diodes	**Ref. 1131/4**
N. 1	Relay box	**Ref. 788/51**

CONNECTION OF 3 INTERCOM VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT
Single call from outside with concurrent power-on

SV102-2970D

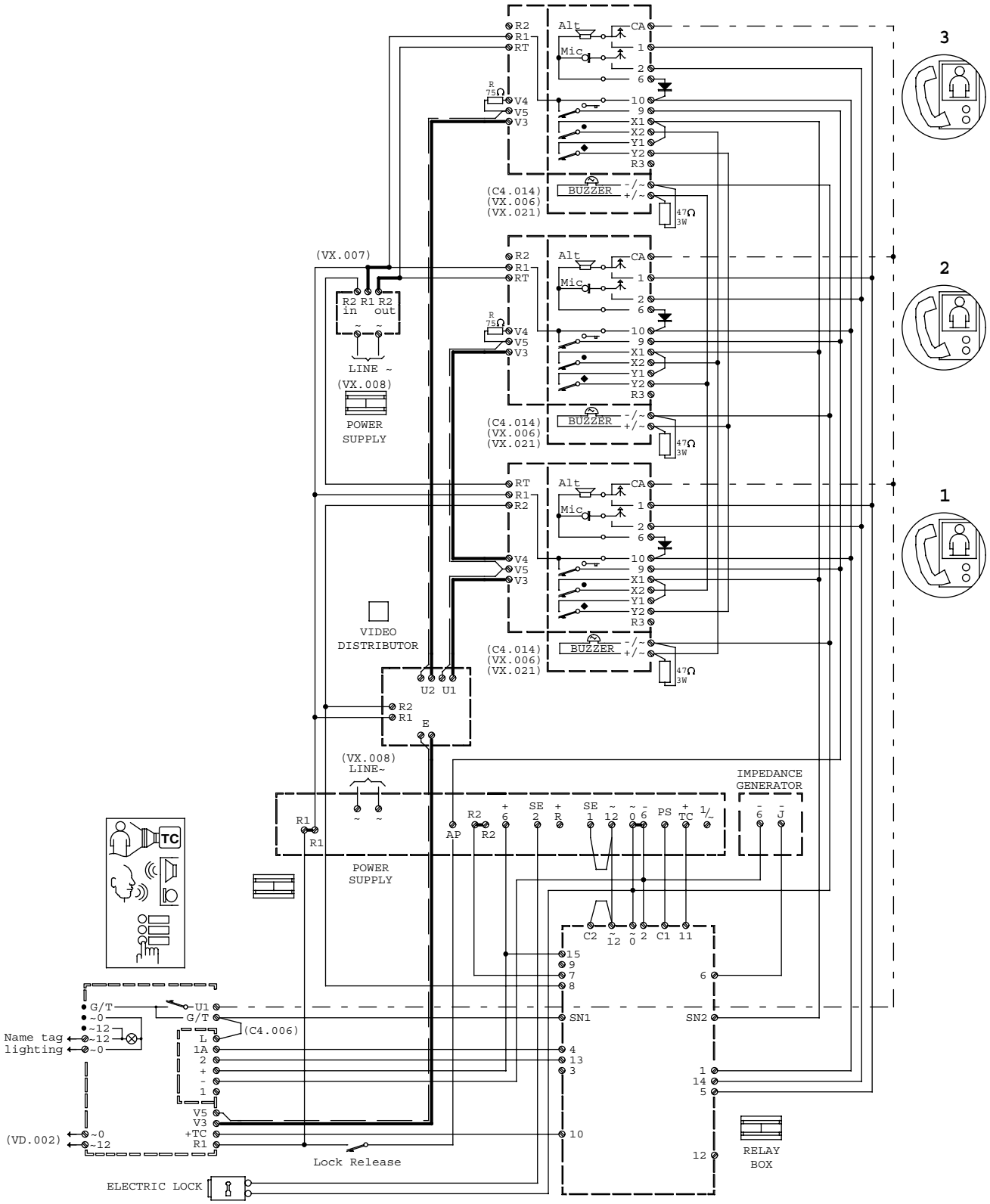


DIAGRAM NOTES

(see section 1)

C4.014 VX.003 VX.006 VX.007 VX.008

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

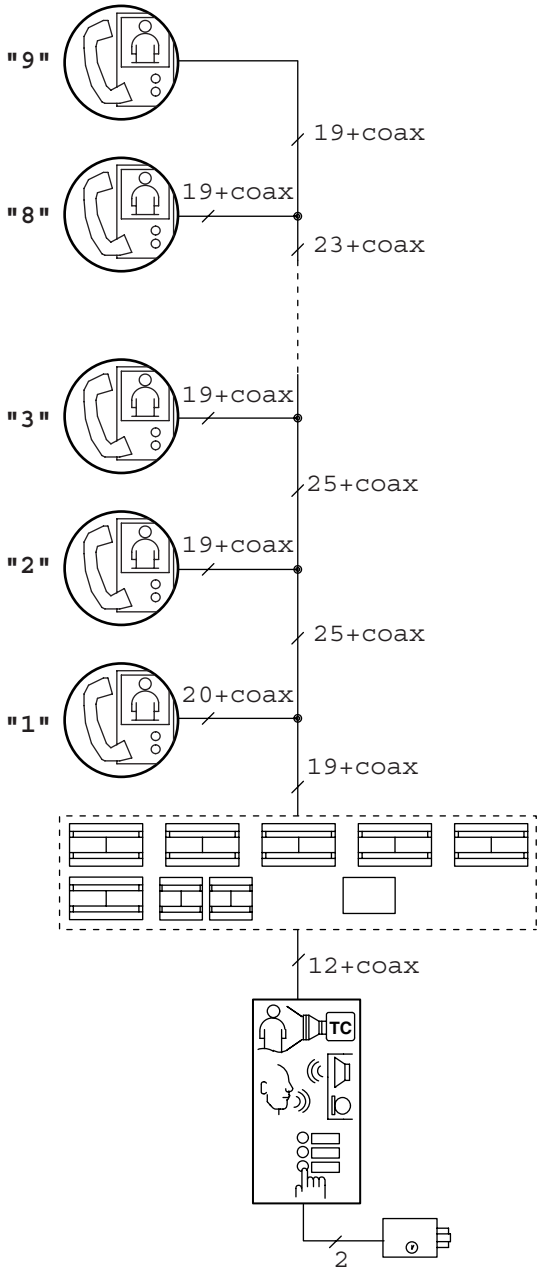
CONNECTION OF MAXIMUM 9 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT
Single call from the outside with concurrent power-on

FUNCTION

This system is particularly suited for detached houses where the video door phones provide the intercom service and can also be called at the same time in parallel by the video outdoor station.

Switching from one service to another is automatic and is assured during the call phase by a relay device.
When the intercom service is activate, listening to the conversation from the loudspeaking unit of the video outdoor station is excluded.
If a call is made from the video outdoor station during an intercom conversation, all the video door phones are automatically switched to the outside.

Extra buzzers are used for external calls from the video outdoor station; for intercom calls, the two-tone electronic call is sent to the loudspeaker of the handset of the video door phone concerned.
When the video door phones are called in parallel by the video outdoor station, they switch on at the same time. At the end of the conversation, the electric lock is released pressing the key.
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2972D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 9	Video door phone	**Ref. 1702/1**
N. 9	Bracket with 8 Button add-on	**Ref. 1702/86**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with camera and door unit	**Ref. 1755/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with 1 button	**Ref. 725/101**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. 1	Button	**Ref. 1128/1-/2**
N. X	Blank module	**Ref. 1128/30-/31**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

VARIOUS

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Power supply (2)	**Ref. 789/2**
N. 2	Power supply (1)	**Ref. 789/3**
N. 1	Impedance generator	**Ref. 789/51**
N. 1	Relay box	**Ref. 788/51**
N. 1	Call repeater relay	**Ref. 788/52**
N. 1	Video distributor	**Ref. 1794/4A**
N. 9	Extra Buzzer	**Ref. 9854/52**
N. 1	Kit of 10 diodes	**Ref. 1131/4**

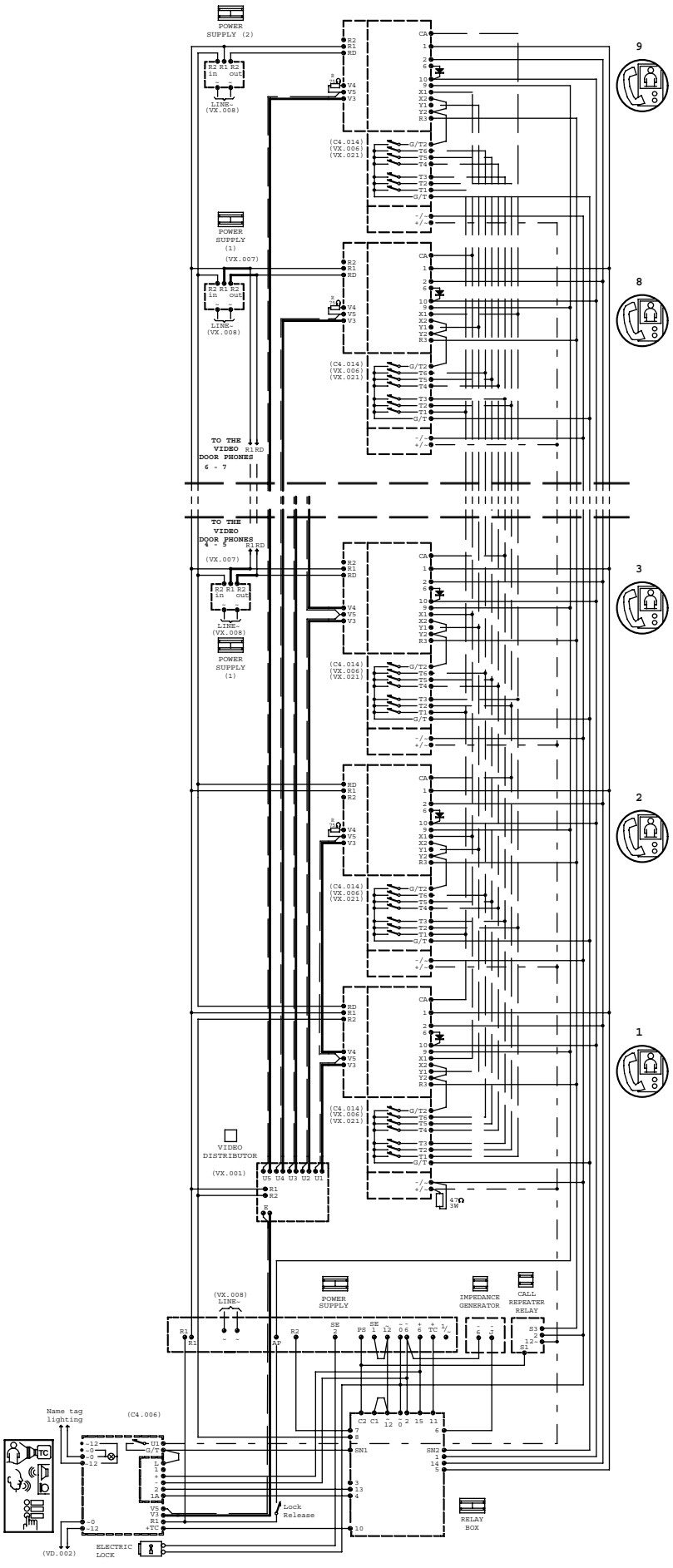
DIAGRAM NOTES

(see section 1)

C4.014 VD.002 VX.001 VX.003 VX.006 VX.007 VX.008

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

SV102-2972D


POWER SUPPLY (2)
LINE~ (VX.008)
POWER SUPPLY (1) (VX.007)
TO THE VIDEO DOOR PHONES 6 - 7
TO THE VIDEO DOOR PHONES 4 - 5
VIDEO DISTRIBUTOR (VX.001)
(C4.014) (VX.006) (VX.021)
47Ω 3W
IMPEDANCE GENERATOR
CALL REPEATER RELAY
Name tag lighting
(C4.006)
Lock Release
ELECTRIC LOCK
(VD.002)
RELAY BOX

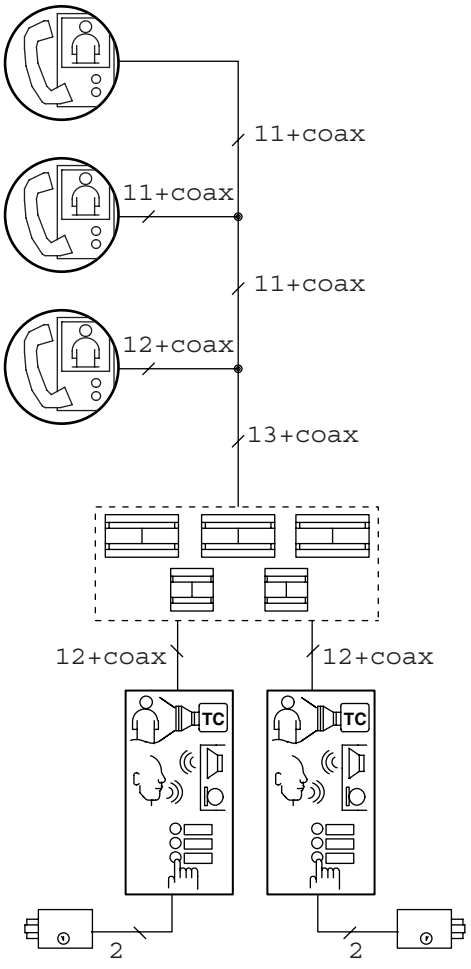
CONNECTION OF 3 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 2 ELECTRICAL VIDEO DOOR UNITS
The video outdoor stations call the video door phones in parallel with concurrent power-on

FUNCTION

The 3 video door phones perform the intercom service and can be called at the same time in parallel by one of the two video outdoor stations.
Switching to the three services is automatic and is assured during the call phase by a relay device.

When the intercom service is activated, listening to the conversation from the loudspeaking units of the video outdoor stations is excluded.
If a call is made from the one of the two video outdoor stations during an intercom conversation, all the video door phones are automatically switched to the entrance from which the call has been sent.
Therefore, concurrent communication with the 2 video outdoor stations is not possible in that either one or the other of these operates alternatively, in mutual exclusion.

Extra buzzers are used for the intercom calls while for those of the video outdoor stations, the two-tone electronic call is sent to the loudspeaker of the handset of the video door phone concerned.
When the video door phones are called in parallel by the one of the two video outdoor stations, they switch on at the same time. At the end of the conversation, only the electric lock of the entrance concerned is released pressing the key .
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3257A:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 3	Video door phones	**Ref. 1702/1**
N. 3	Bracket	**Ref. 1202/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 2	Module with camera and door unit	**Ref. 1745/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 2	Module with camera and door unit	**Ref. 1755/81**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 2	Panel with 1 button	**Ref. 725/101**
N. 2	Amplified door unit	**Ref. 1128/500**
N. 2	Camera	**Ref. 725/600**
N. 2	Front plate	**Ref. 725/601**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 2	Front case for video door unit	**Ref. 1728/20-/21**
N. 2	Door unit with camera	**Ref. 1728/80**
N. 2	Button	**Ref. 1128/1-/2**
N. X	Blank module (*)	**Ref. 1128/30-/31**

(*) for small button installation only

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Supplementary power supply	**Ref. 789/2**
N. 1	Impedance generator	**Ref. 789/51**
N. 1	Relay box (1)	**Ref. 788/54**
N. 1	Relay box (2)	**Ref. 788/52**
N. 1	Video distributor	**Ref. 1794/4A**
N. 3	Extra Buzzer	**Ref. 9854/52**
N. 1	Kit of 10 diodes	**Ref. 1131/4**

urmet DOMUS

CONNECTION OF 3 INTERCOM Atlantico VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 2 ELECTRICAL VIDEO DOOR UNITS
The video outdoor stations call the video door phones in parallel with concurrent power-on

coax

SV102-3257A

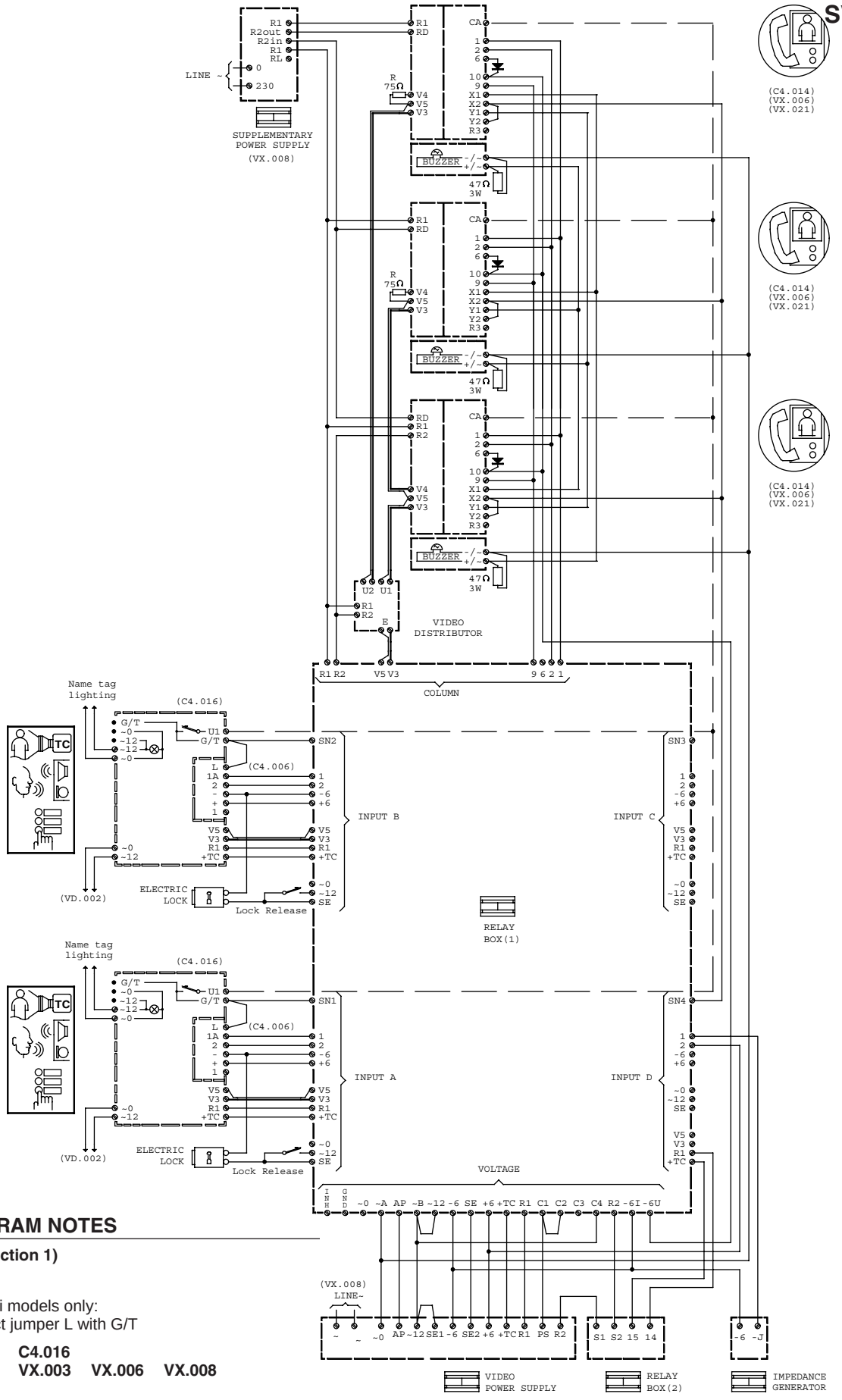


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

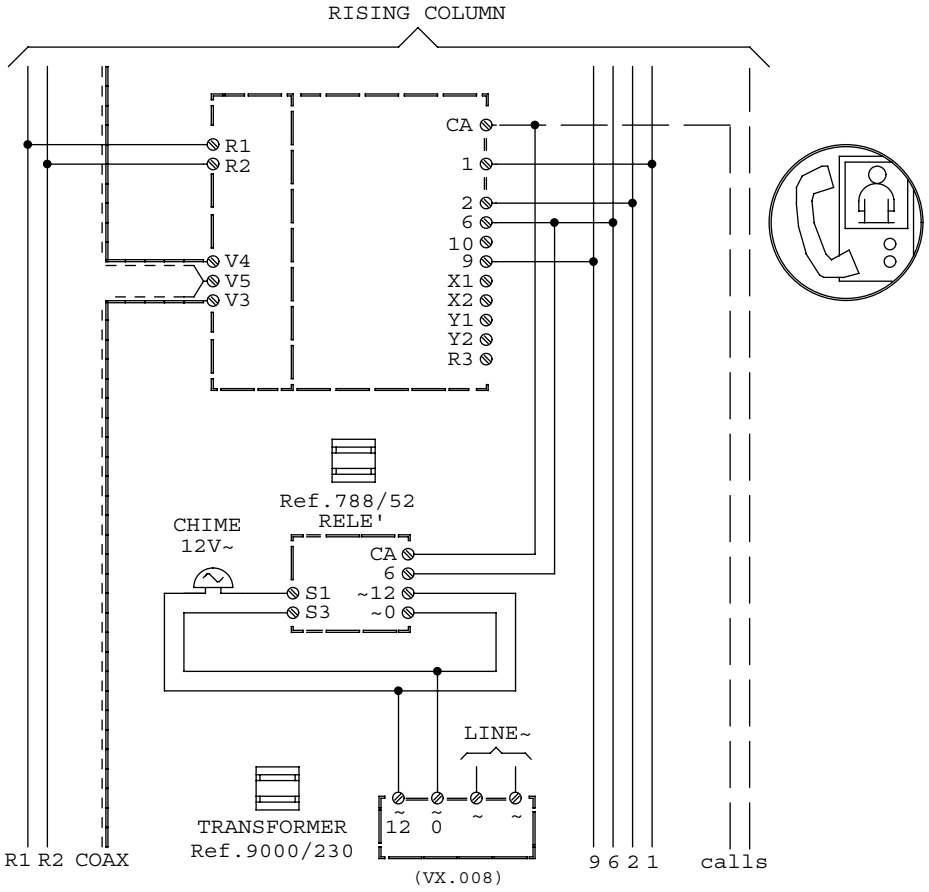
C4.014 C4.016
VD.002 VX.003 VX.006 VX.008

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

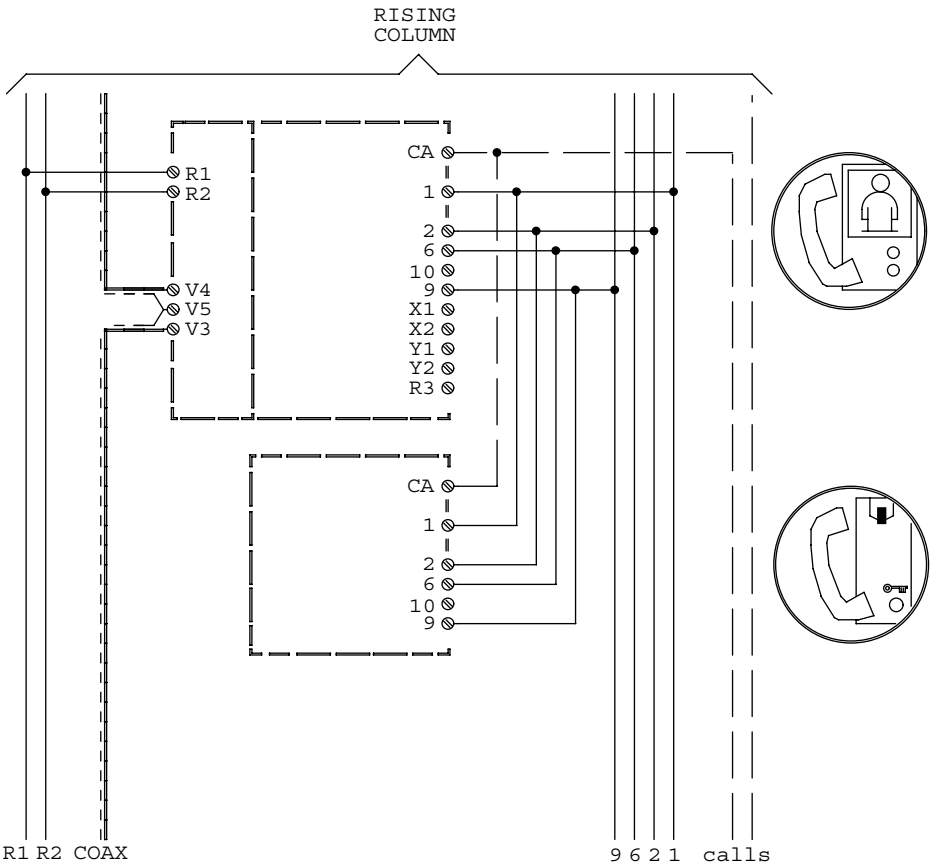
SV102-1469D: CONNECTION OF A CALL REPEATER RELAY IN PARALLEL TO THE VIDEO DOOR PHONE

SV102-1574C: CONNECTION IN PARALLEL OF 1 VIDEO DOOR PHONE AND 1 DOOR PHONE

SV102-1469D

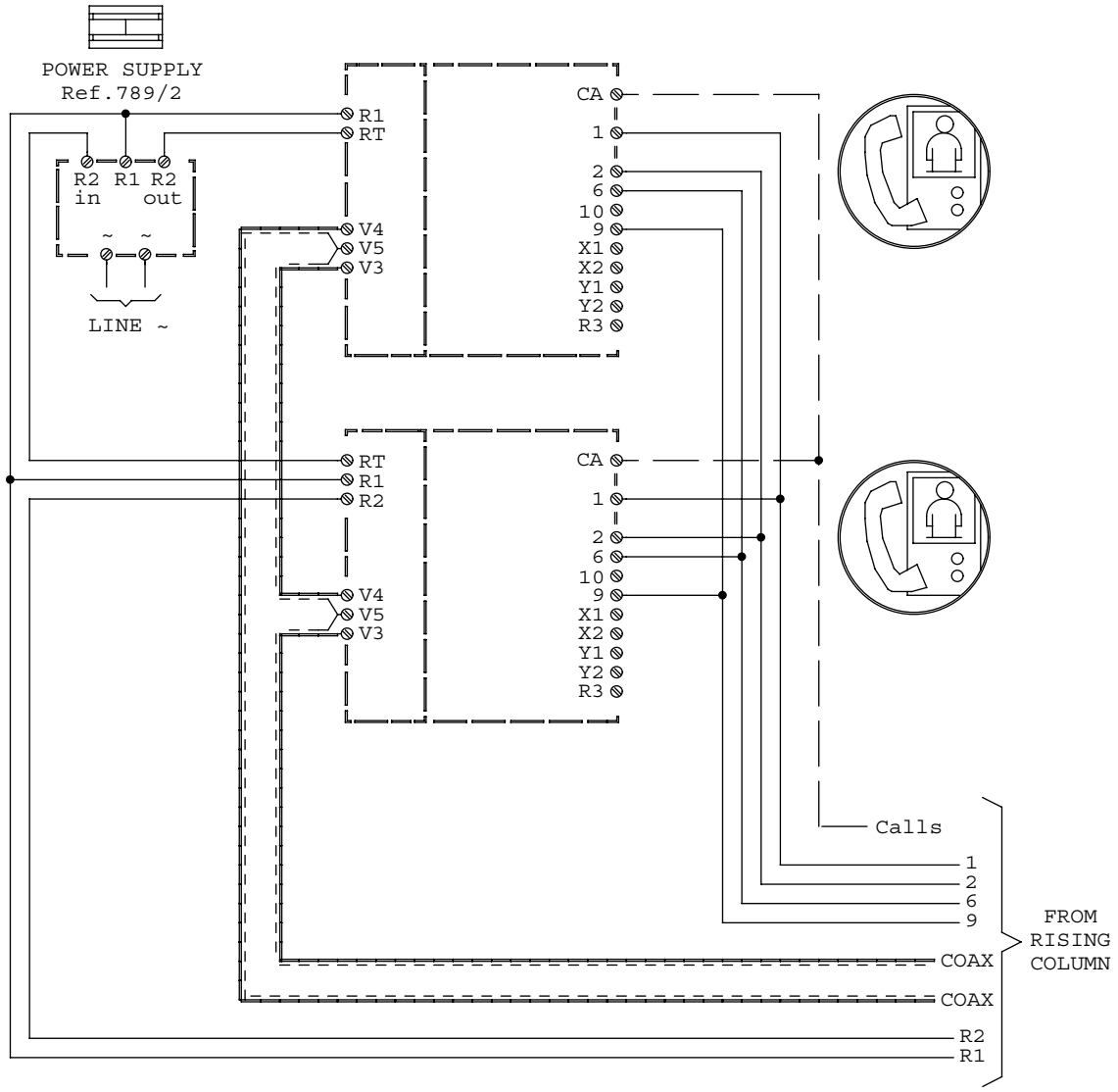


SV102-1574C



CONNECTION OF A CALL REPEATER RELAY IN PARALLEL TO THE VIDEO DOOR PHONE

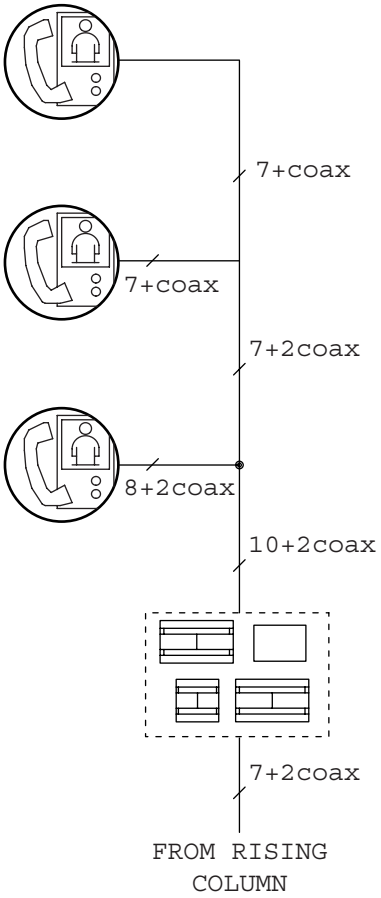
SV102-0782D



CONNECTION OF 3 VIDEO DOOR PHONE EXTENSIONS IN PARALLEL TO A SYSTEM WITH VIDEO DOOR UNIT
The video door phones are called at the same time

FUNCTION

The system is particularly suitable to be installed in buildings where three video door phones belonging to a more complex system with video door phone unit must be called and switched on at the same time by one only call button.
Since the video power unit cannot power more than one video door phone, a supplementary local power unit is needed to power video door phones 2 and 3.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2132E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 4	Video door phones	**Ref. 1702/1**
N. 4	Bracket	**Ref. 1202/90**

or

Artico model

N. 4	Video door phones	**Ref. 1705/1**
N. 4	Bracket	**Ref. 1705/90**

POWER SUPPLY REFERENCES

N. 1	Supplementary power supply	**Ref. 789/3**
N. 1	Video distributor	**Ref. 1794/4A**
N. 1	Door phone power supply	**Ref. 786/11**
N. 1	Relay	**Ref. 788/52**

DIAGRAM NOTES

(see section 1)

VX.001 VX.007 VX.008

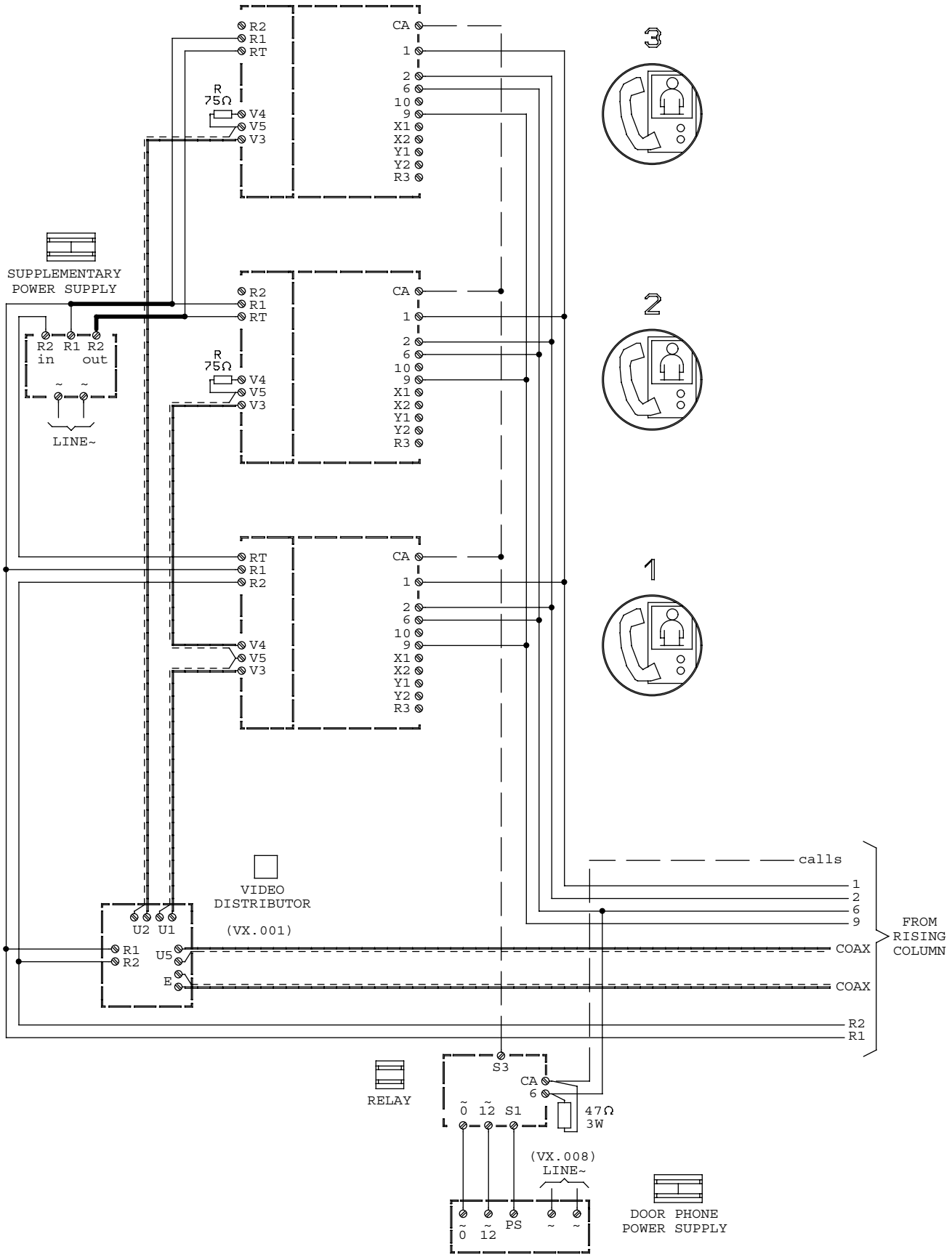
urmet DOMUS

CONNECTION OF 3 VIDEO DOOR PHONE EXTENSIONS IN PARALLEL TO A SYSTEM WITH VIDEO DOOR UNIT

The video door phones are called at the same time

coax

SV102-2132E



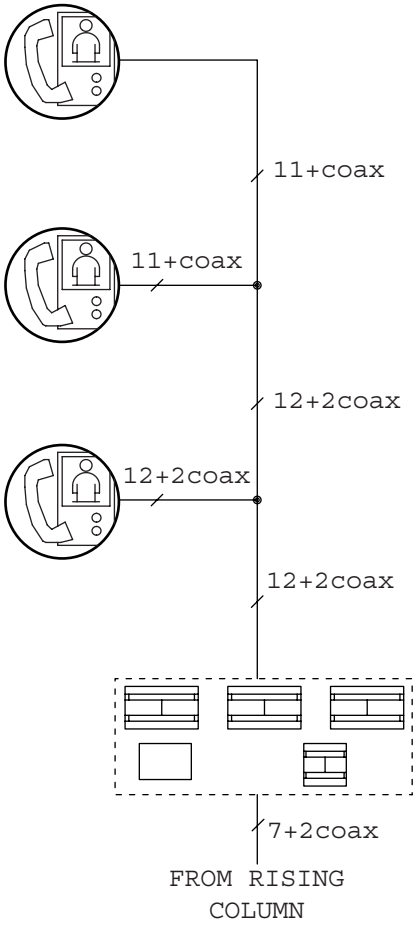
CONNECTION OF 3 INTERCOM VIDEO DOOR PHONE EXTENSIONS TO A SYSTEM WITH VIDEO DOOR UNIT
Single call from outside with concurrent power-on

FUNCTION

This system is particularly suited for detached houses where the video door phones provide the intercom service and can also be called at the same time in parallel by the video outdoor station. Switching from one service to another is automatic and is assured during the call phase by a relay device.

When the intercom service is activated, listening to the conversation from the loudspeaking unit of the video outdoor station is excluded.

The external call from the video door phone system is sent to the video door phone speaker. The intercom call is sent to the buzzers.
The ◯ and ◇ service keys are used for intercom calls.
When the video door phones are called in parallel by the video outdoor station, they switch on at the same time. At the end of the conversation, the electric lock is released pressing the key.
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-1349E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. 3	Video door phones	**Ref. 1702/1**
N. 3	Bracket	**Ref. 1202/90**

or

Artico model

N. 3	Video door phones	**Ref. 1705/1**
N. 3	Bracket	**Ref. 1705/90**

POWER SUPPLY REFERENCES

N. 1	Power supply	**Ref. 786/11**
N. 1	Supplementary power supply	**Ref. 789/3**
N. 1	Video distributor	**Ref. 1794/4A**
N. 3	Extra Buzzer	**Ref. 9854/52**
N. 1	Kit of 10 diodes	**Ref. 1131/4**
N. 1	Relay box “B”	**Ref. 788/52**
N. 1	Relay box “A”	**Ref. 788/51**

DIAGRAM NOTES

(see section 1)

C4.014 VX.006 VX.007 VX.008

VX.021
Cut or remove the jumpers on the device(s): 6 – 10.

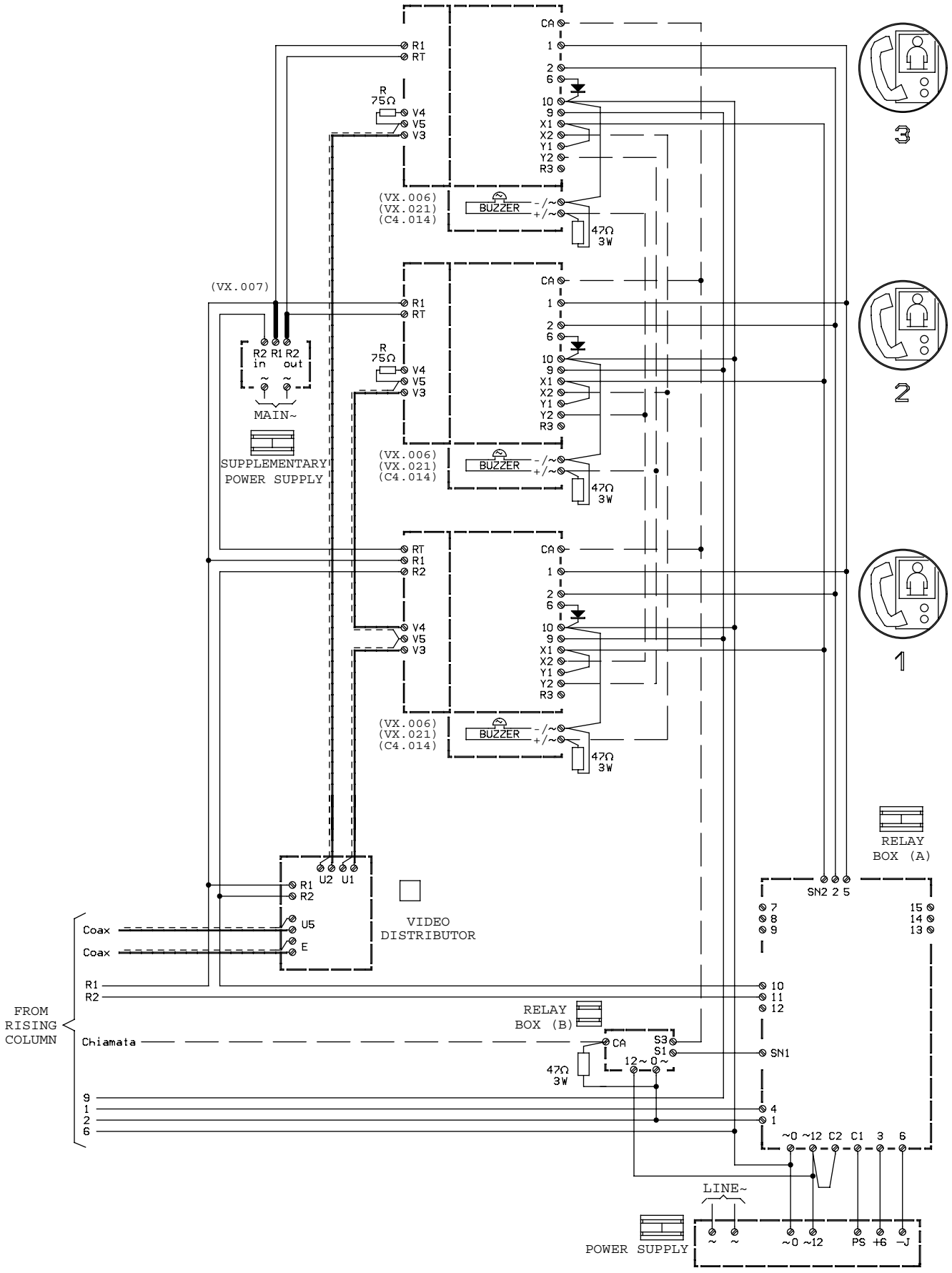
VX.023 VX.034

CONNECTION OF 3 INTERCOM VIDEO DOOR PHONE EXTENSIONS TO A SYSTEM WITH VIDEO DOOR UNIT

Single call from outside with concurrent power-on

coax

SV102-1349E



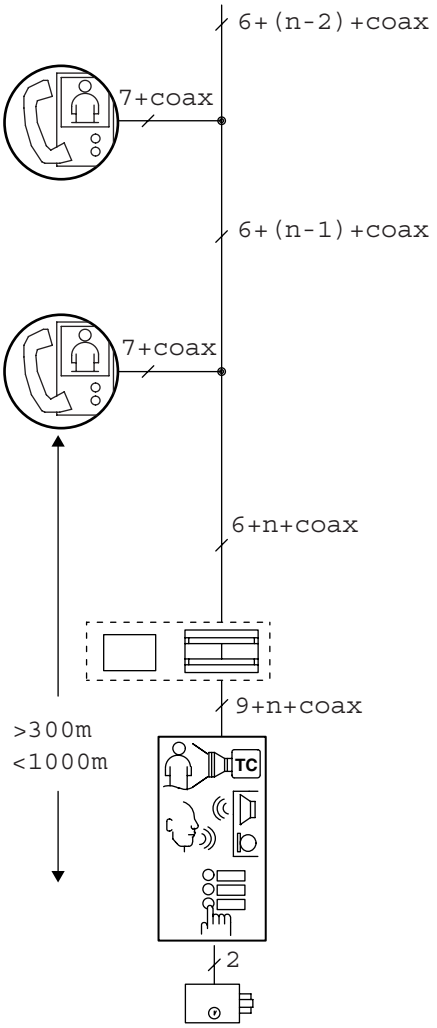
coax

CONNECTION OF N VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT
Distance between video door phone and video door unit in the range from 300 to 1000 metres

urmet DOMUS

FUNCTION

The system allows the connection between the video door phone unit and the various video door phones located in the apartments also when the distance between them is higher than 300 m and lower than 1000m.
When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding video door phone loudspeaker and, after about 7 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset. At the end of the conversation, the electric lock can be operated by pressing the key ( ).
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second video door phone is called before the end of the 60 seconds, the first video door phone will automatically go off and the latter comes on. This feature guarantees secrecy of vision.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-1241D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/90**

or

Artico model

N. X	Video door phones	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with camera and door unit	**Ref. 1745/80-/81-/82**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with camera and door unit	**Ref. 1755/80**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**
N. 1	Camera	**Ref. 725/600**
N. 1	Front plate	**Ref. 725/601-/602**

For the panels references and the accessories refer to “Panels with anodized Aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for video door unit	**Ref. 1728/20-/21**
N. 1	Door unit with camera	**Ref. 1728/80**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. X	Supplementary power supply	**Ref. 789/2**
N. 1	Video amplifier	**Ref. 1090/729**

urmet DOMUS

CONNECTION OF N VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT
Distance between video door phone and video door unit in the range from 300 to 1000 metres

coax

SV102-1241D

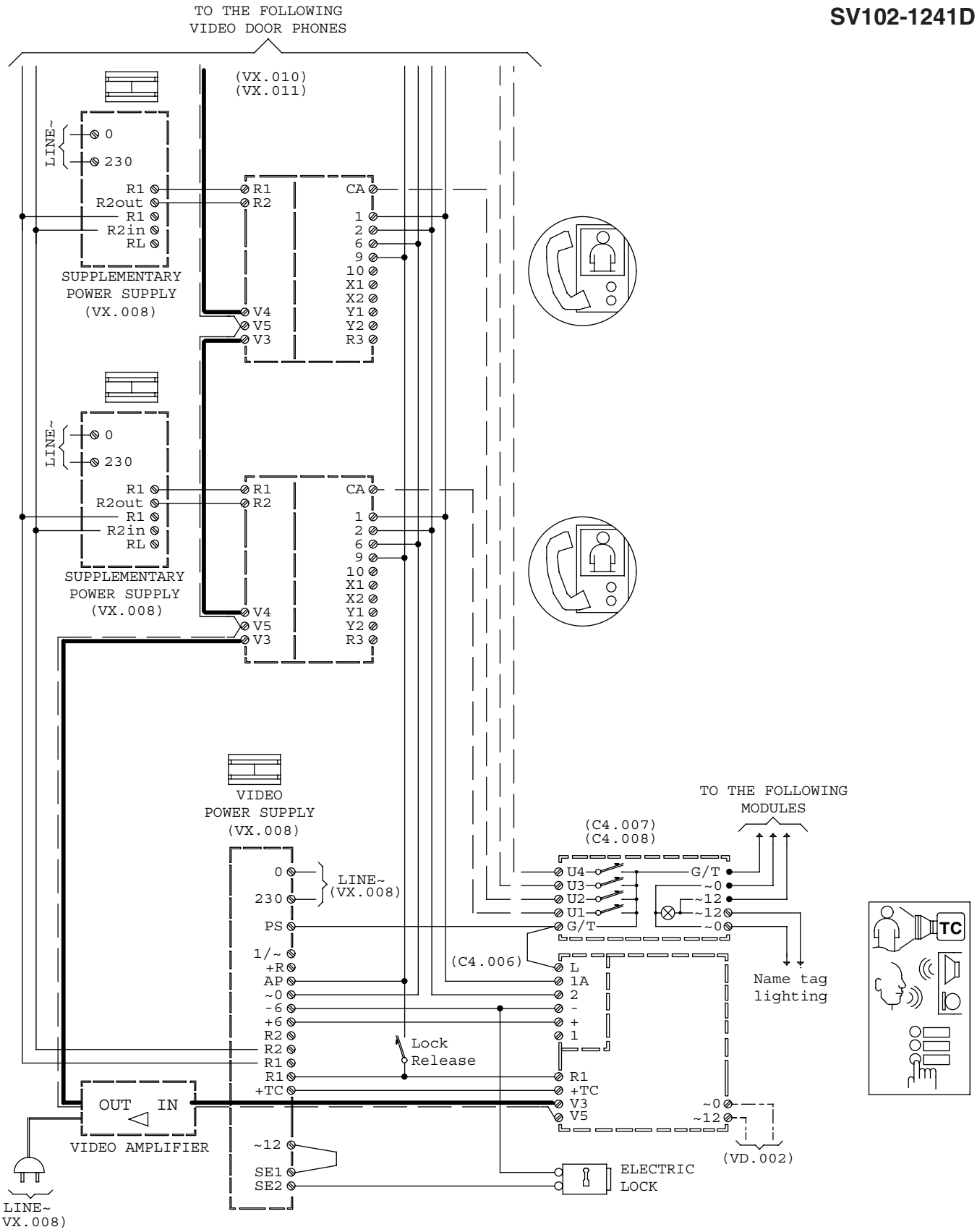


DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008
VD.002 VX.008 VX.010 VX.011 VX.016

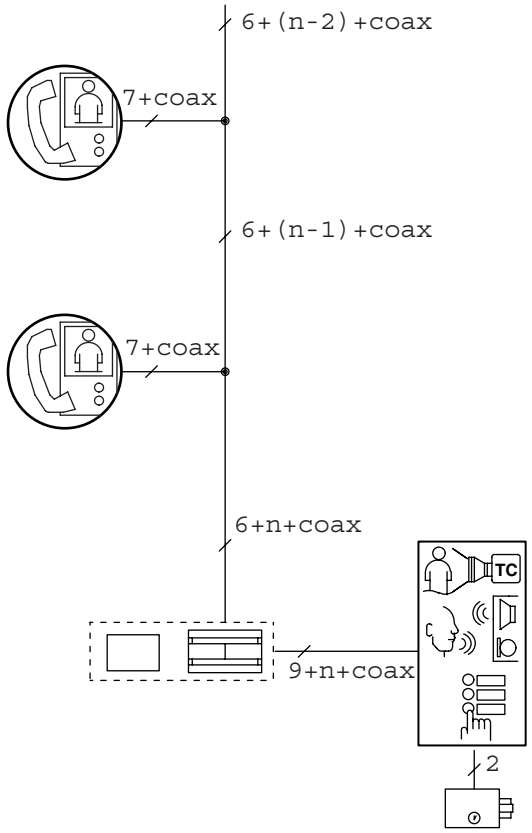
coax

CONNECTION OF SEVERAL COLOURS VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION

urmet DOMUS

FUNCTION

This system allows connection between the video outdoor station and the various video door phones situated in the apartments. When the visitor presses a button on the push button panel, the bitonal electronic call is sent to the corresponding video door phone loudspeaker and, after about 7 seconds, the image appears on the screen.
At this point the user sees the visitor and can answer, if he wishes, unhooking the handset. At the end of the conversation, the electric lock can be operated by pressing the key (🔑).
Vision of the image lasts about 60 seconds, after which the intervention of the built-in timer in the power supply causes it to go off. If a second video door phone is called before the end of the 60 seconds, the first video door phone will automatically go off and the latter comes on. This feature guarantees secrecy of vision.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3063A:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phones	**Ref. 1702/40**
N. X	Bracket	**Ref. 1202/90**

or

Utopia model

N. X	Video door phones direct vision	**Ref. 1703/1**
N. X	Bracket	**Ref. 1703/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module camera	**Ref. 1745/40**
N. 1	Module with door unit	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 5150/500**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/40**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Video distributor	**Ref. 1794/4A**

DIAGRAM NOTES

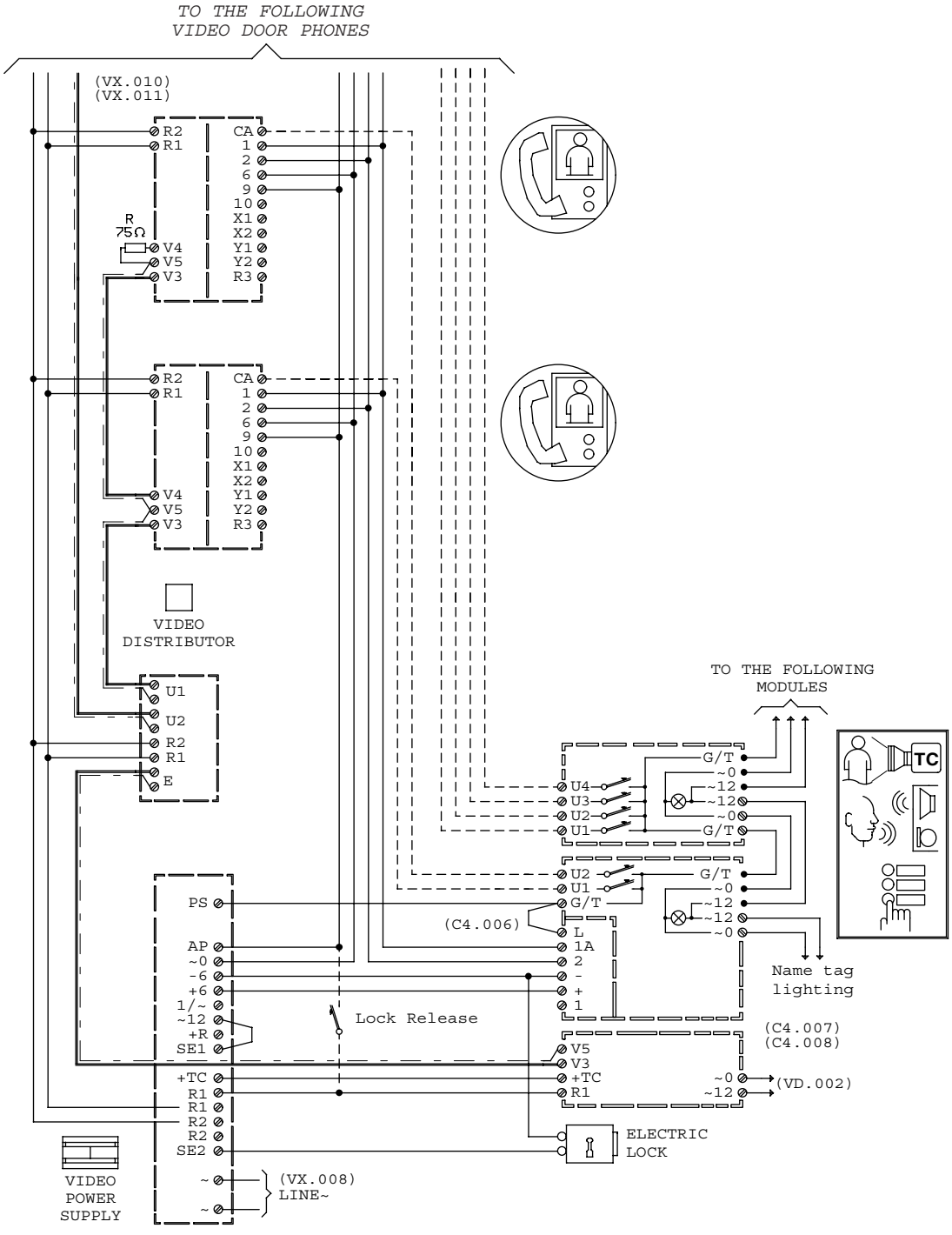
(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 VD.002 VX.003
VX.008 VX.010 VX.011

CONNECTION OF SEVERAL COLOURS VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION

SV102-3063A



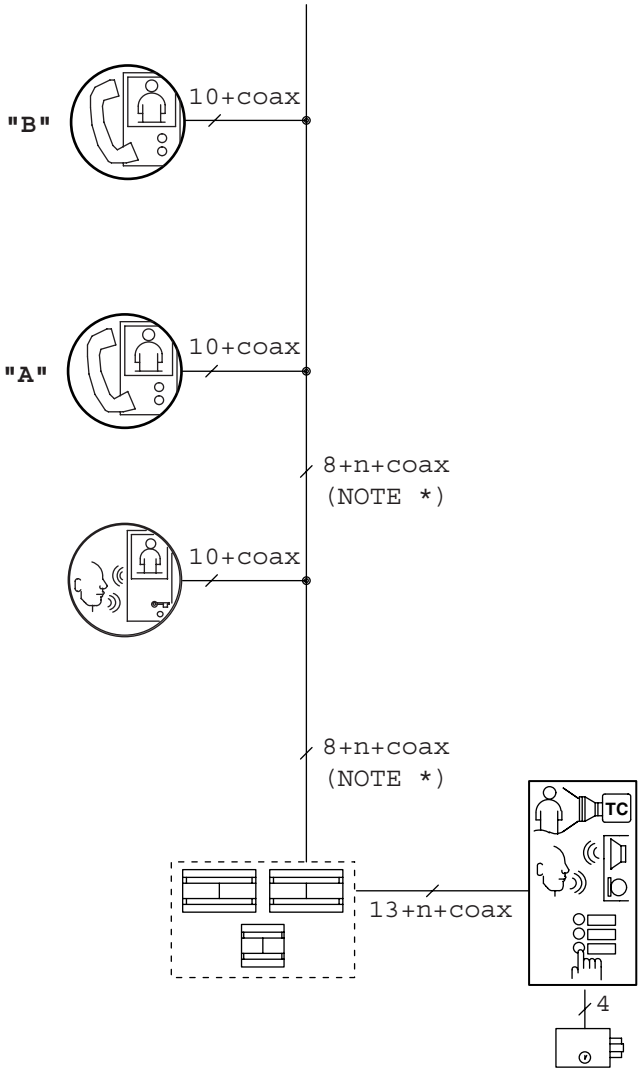
coax

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 DOOR UNIT
Door open indicator on video door phones

urmet DOMUS

FUNCTION

The system provides an open door monitoring service, in addition to providing a connection between the video door unit and the various colour video door phone in the apartments following a call.
An indicator LED lights up on all video door phones when the entrance door is open.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3228A:

VIDEO DOOR PHONE REFERENCES

EXAMPLE "A"
Utopia model

N. 1	Video door phones direct vision	**Ref. 1703/1**
N. **1**	Bracket	**Ref. 1704/90**

or

EXAMPLE "B"
Atlantico model

N. 1	Video door phones	**Ref. 1702/40**
N. 1	Bracket	**Ref. 1702/86**

Utopia free-hands model

N. 1	Video door phones direct vision	**Ref. 1703/2**
N. 1	Bracket	**Ref. 1703/91**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module camera	**Ref. 1745/40**
N. 1	Module with door unit	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 5150/500**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "Sinthesi panel" section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/40**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to "K-Steel modular vandal-proof panel" section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Supplementary power supply	**Ref. 1090/850**
N. 1	Relay box	**Ref. 788/52**

DIAGRAM NOTES

(see section 1)

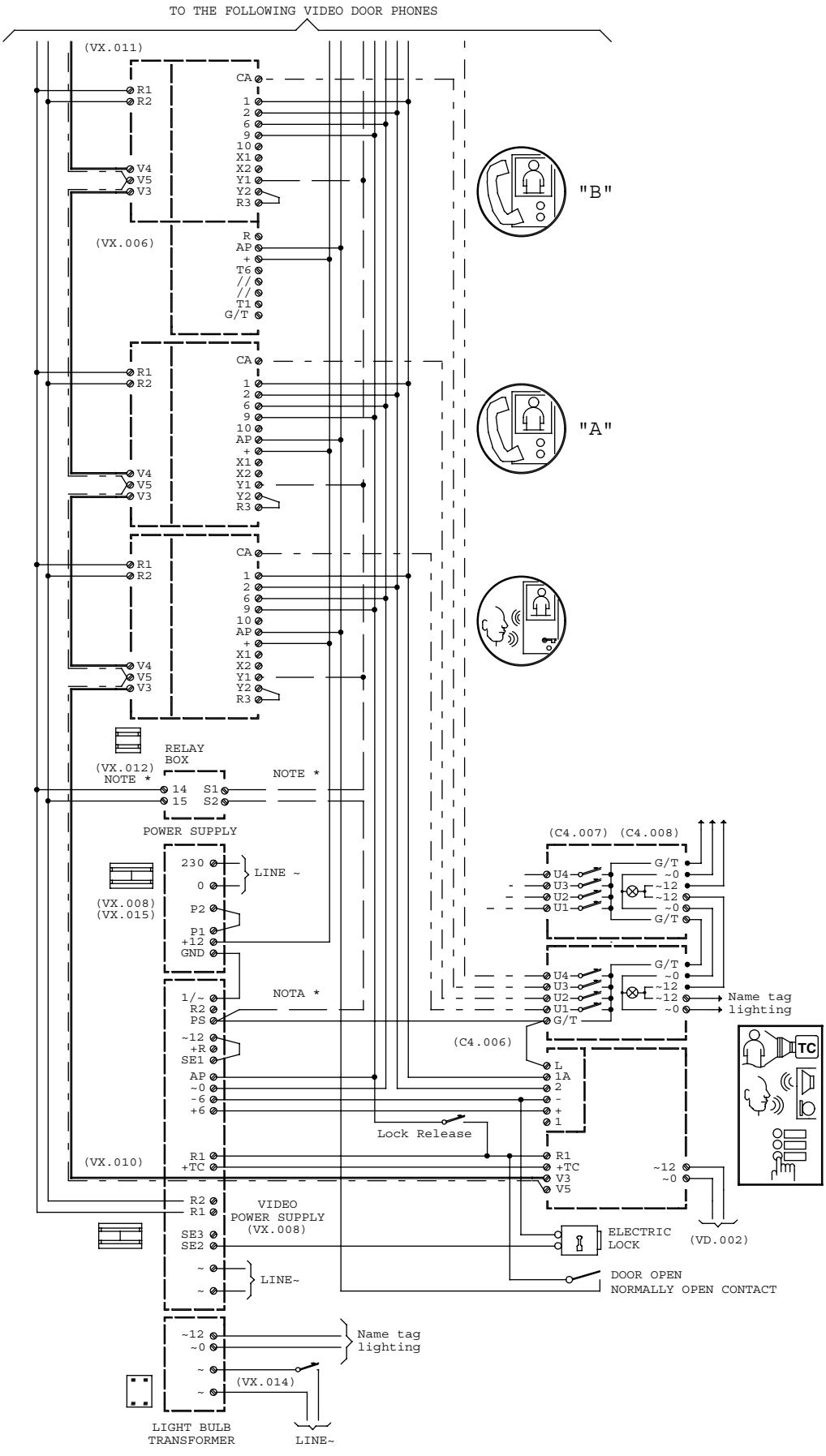
C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 VD.002
VX.003 VX.006 VX.008 VX.010
VX.011 VX.012 VX.014 VX.015

NOTE *: *add 1 optional conductor for the video door phone autoinsertion (with the Utopia free-hands video door phone is possible also the fonic autoinsertion).*

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO 1 DOOR UNIT
Door open indicator on video door phones

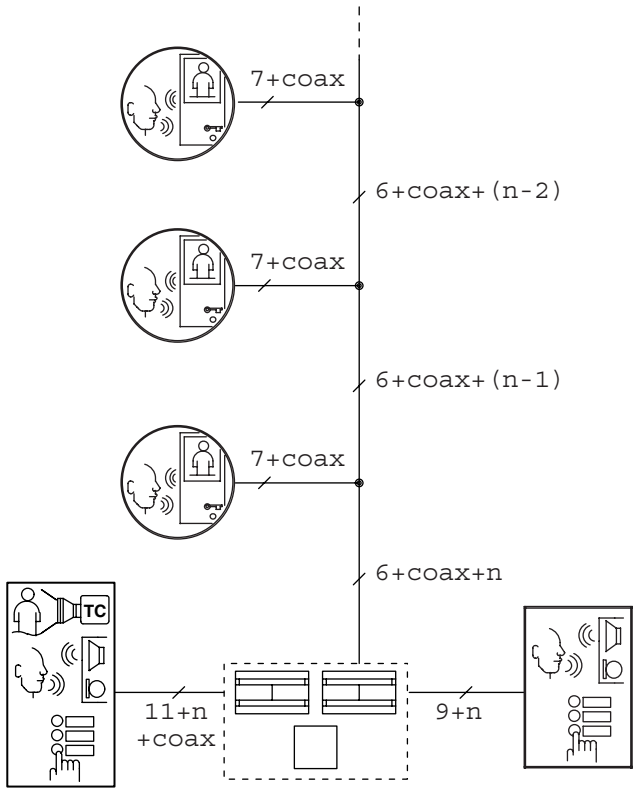
SV102-3228



CONNECTION OF N FREE-HANDS UTOPIA COLOUR VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT AND TO 1 DOOR UNIT

FUNCTION

This type of system is used to connect a video door phone column to an automatically switching video door unit or door unit.
A two-tone electronic call is sent to the corresponding video door phone speaker when a call button is pressed on either of the two panels; the picture appears on the screen after approximately seven seconds if the call was made by the video door unit.
The video door phone monitor will be blank and will work as a regular free-hands door phone if the call is received from the door unit.
Press at the end of the call to open the concerned door electrical lock only.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3227:

VIDEO DOOR PHONE REFERENCES

Utopia free-hands model

N. 1	Video door phones direct vision	**Ref. 1703/2**
N. 1	Bracket	**Ref. 1703/91**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module camera	**Ref. 1745/40**
N. 1	Module with door unit	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/40**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panels with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Relay box	**Ref. 788/51**
N. 1	Video distributor	**Ref. 1794/4A**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

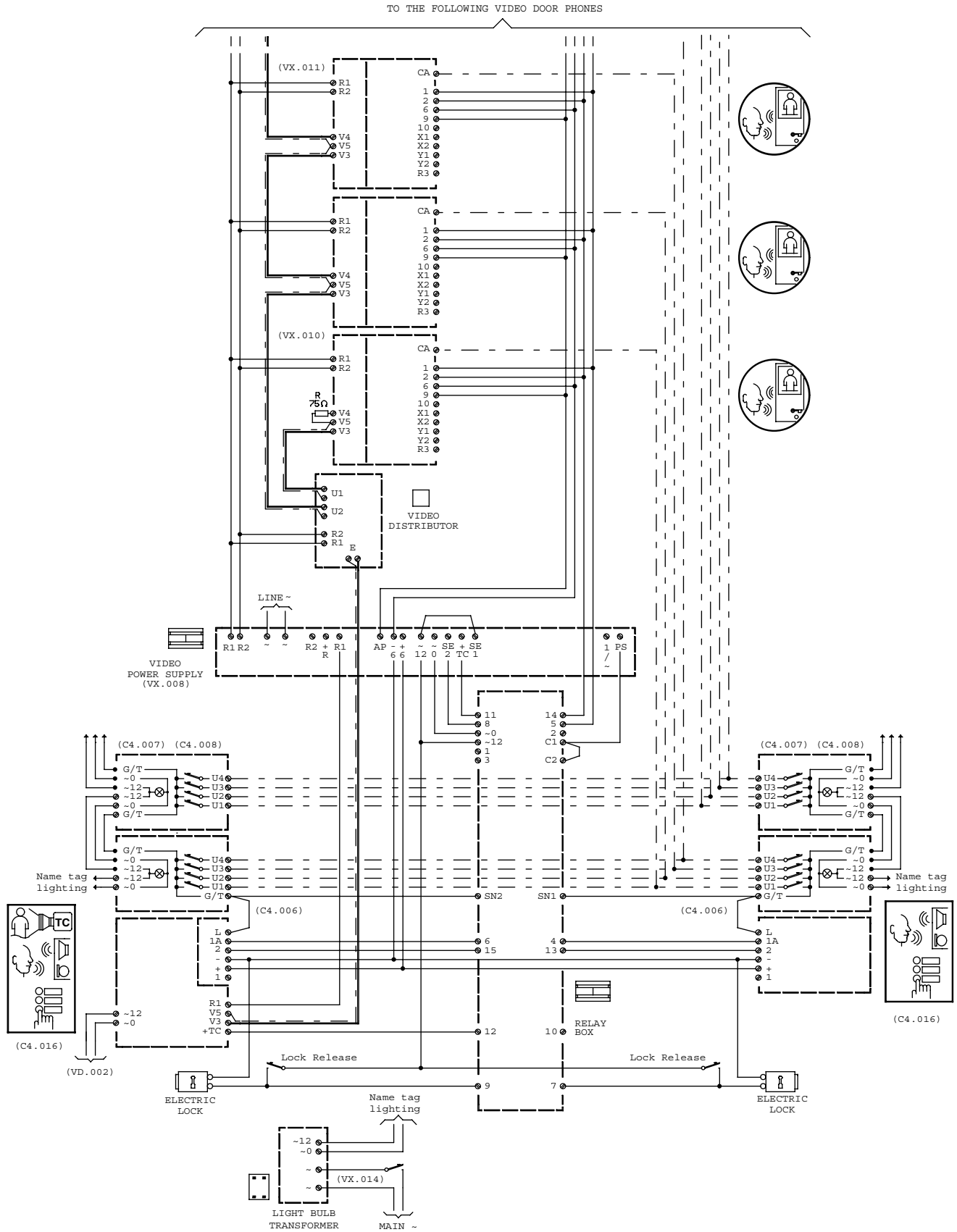
C4.007 C4.008 C4.016 VD.002 VX.008 VX.010 VX.011 VX.014

urmet DOMUS

CONNECTION OF N FREE-HANDS UTOPIA COLOUR VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT AND TO 1 DOOR UNIT

coax

SV102-3227

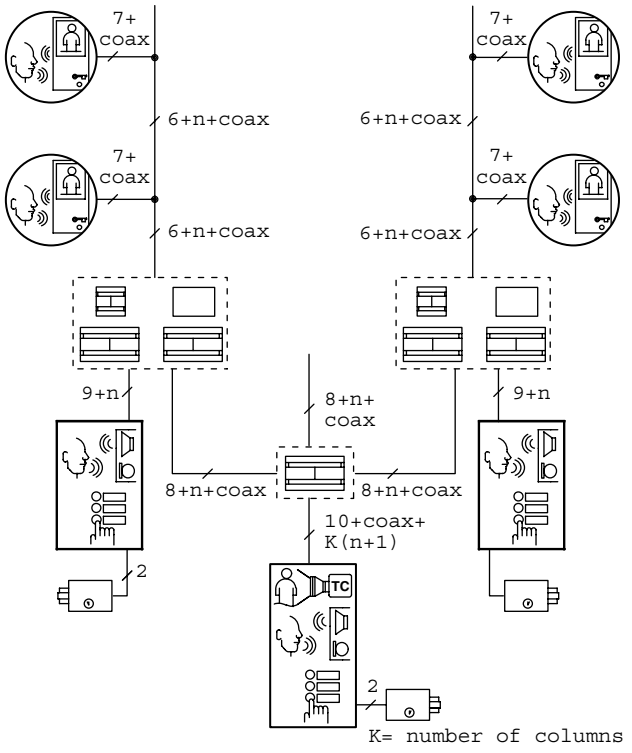


CONNECTION OF N FREE-HANDS COLOUR VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO DOOR UNIT
Each column is additionally connected to a specific secondary door unit

FUNCTION

This system is particularly suitable for residential properties where it is necessary to connect the single villas to a proper video outdoor station and to a common one located at the main entry.

During calling the video door phone is automatically switched on the main video outdoor station or to the secondary one of its own group, by means of the switching relay. The services for secondary video outdoor stations are independent, so that they be realized simultaneously.
When the call is coming from the main video outdoor station, only the group of the called video door phone is switched on it, the other ones continue to service towards the secondary.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3235:

VIDEO DOOR PHONE REFERENCES

Utopia free-hands model

N. 1	Video door phones direct vision	**Ref. 1703/2**
N. 1	Bracket	**Ref. 1703/91**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module camera	**Ref. 1745/40**
N. 1	Module with door unit	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/40**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Amplified door unit	**Ref. 1145/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panels with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1128/500**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

or

1128 model

N. 1	Front case for door unit	**Ref. 1128/20-/21**
N. 1	Door unit	**Ref. 1128/500**
N. X	Front case	**Ref. 1128/10-/11**
N. X	Button	**Ref. 1128/1-/2**

For boards of accessories refer to “Wall Mounted Panel Mod. 1128” section of Doorphone and Videodoorphone system product technical manual.

POWER SUPPLY REFERENCES

N. K+1	Video power supply	**Ref. 789/5B**
N. K	Relay box	**Ref. 788/51**
N. 1	Video distributor	**Ref. 1794/4A**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.007 C4.008 C4.017 VD.002
VX.001 VX.002 VX.003 VX.008 VX.014

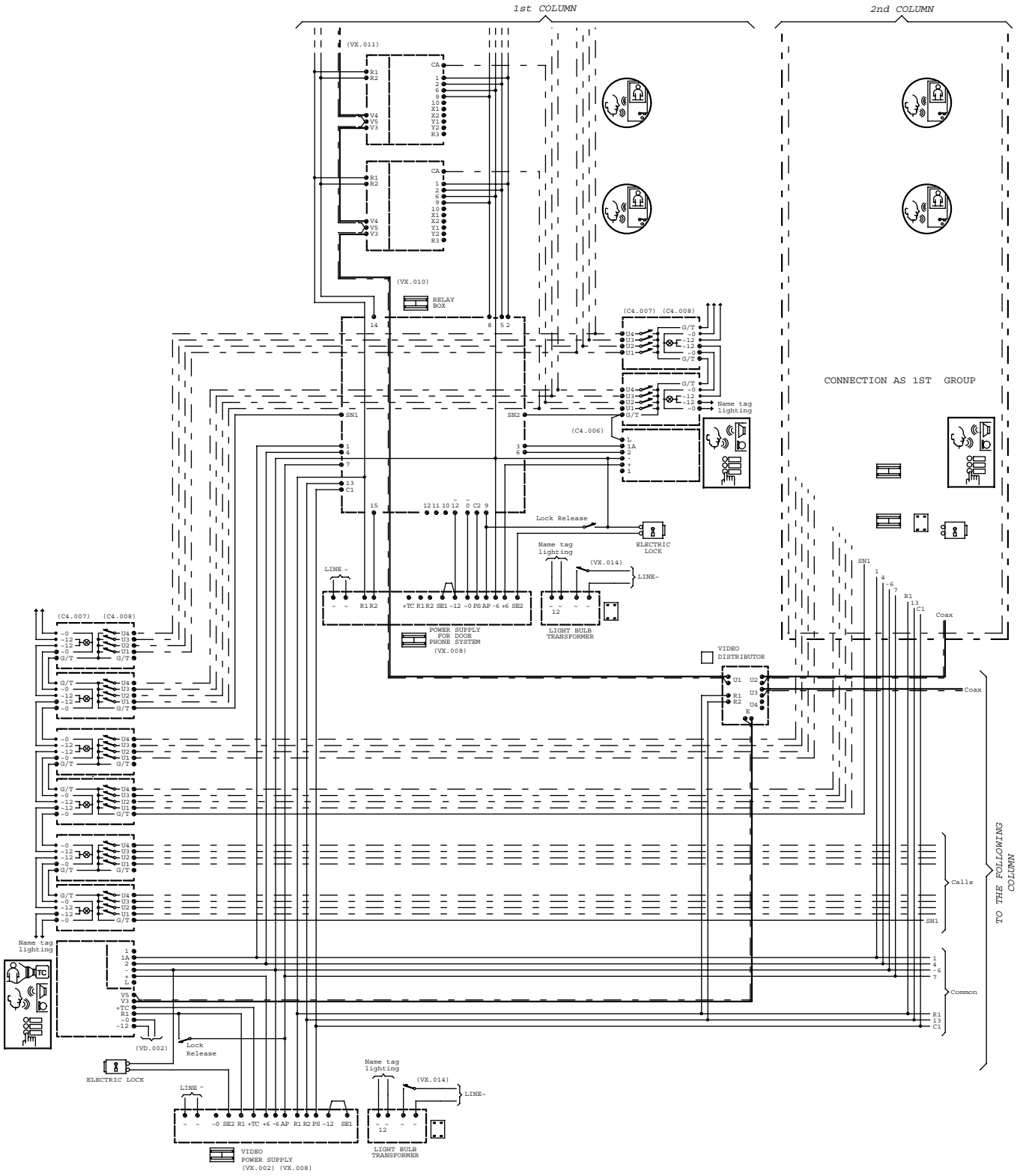
urmet DOMUS

CONNECTION OF N FREE-HANDS COLOUR VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO DOOR UNIT

Each column is additionally connected to a specific secondary door unit

coax

SV102-3235



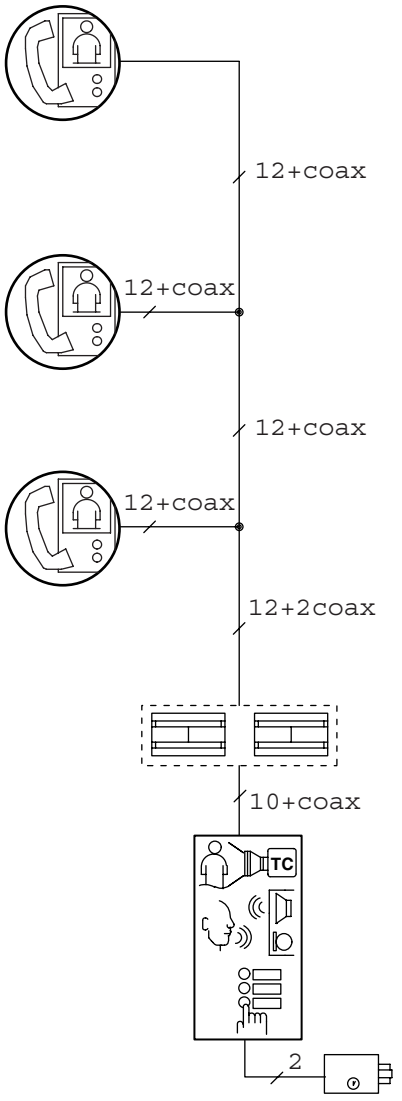
CONNECTION OF 3 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT

FUNCTION

This system is particularly suited for detached houses where the video door phones provide the intercom service and can also be called at the same time by the video outdoor station. Switching from one service to another is automatic and is assured during the call phase by a relay device.

When the intercom service is activated, listening to the conversation from the loudspeaking unit of the video outdoor station is excluded.
If a call is made from the video outdoor station during an intercom conversation, all the video door phones are automatically switched to the outside.

The ◯ and ◇ service keys are used for intercom calls.
When the video door phones are called in parallel by the video outdoor station, they switch on at the same time. At the end of the conversation, the electric lock is released pressing the key.
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3219:

VIDEO DOOR PHONE REFERENCES

Utopia model

N. 3	Video door phones	**Ref. 1703/1**
N. 3	Bracket	**Ref. 1703/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/41**
N. 1	Button modules	**Ref. 1145/12**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/40**
N. 1	Module with door unit	**Ref. 1155/20**
N. X	Button modules	**Ref. 1155/13A**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Door phone power supply with relay	**Ref. 786/15**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

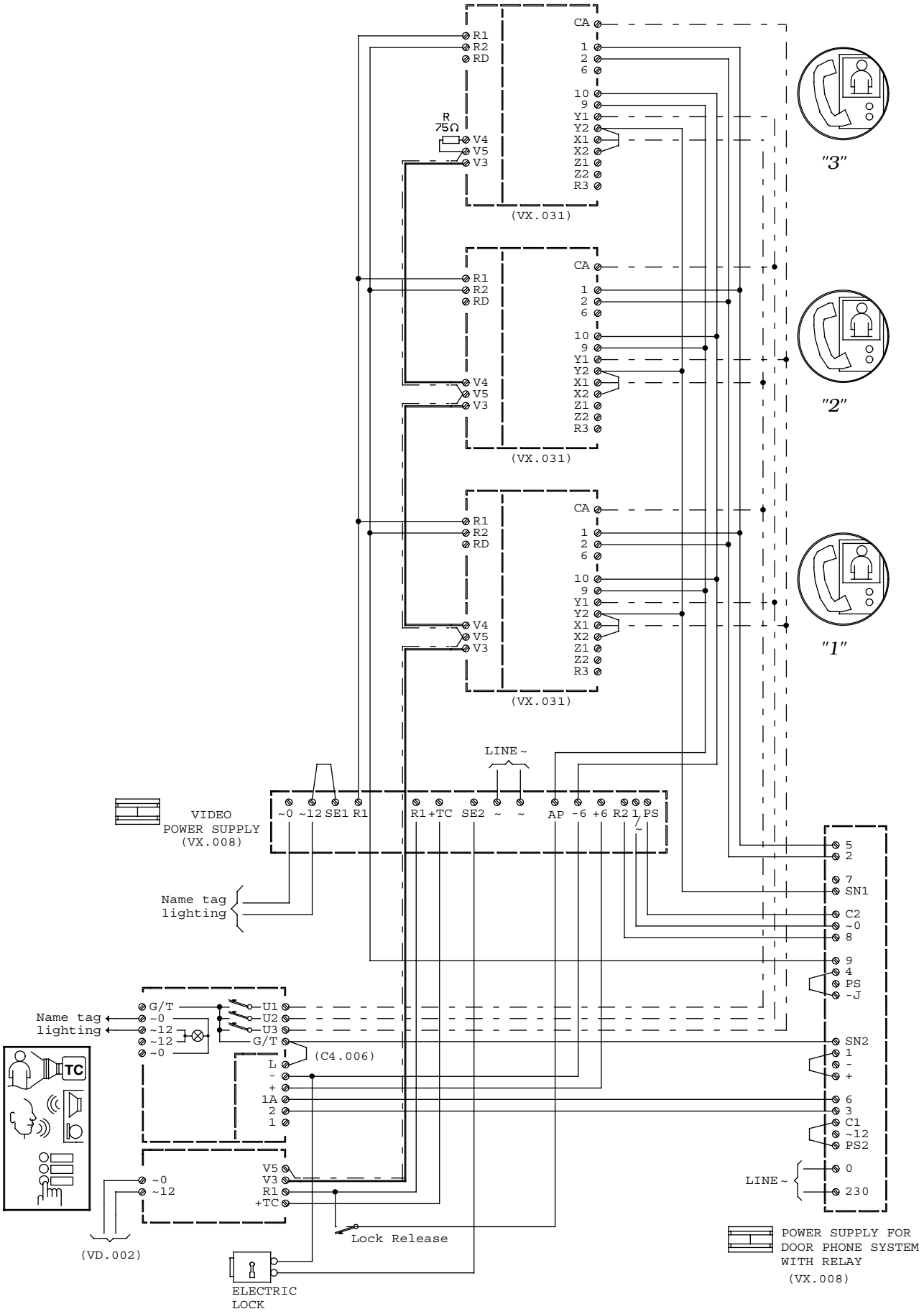
VD.002 VX.003 VX.008 VX.014 VX.031

urmet DOMUS

CONNECTION OF 3 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT

coax

SV102-3219



coax

CONNECTION OF 2 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT
Single call from outside with concurrent power-on

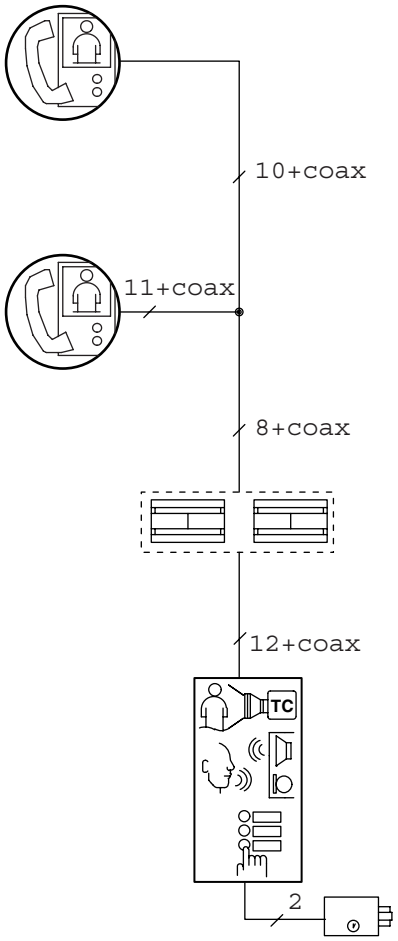
urmet DOMUS

FUNCTION

This system is particularly suited for detached houses where the video door phones provide the intercom service and can also be called at the same time in parallel by the video outdoor station. Switching from one service to another is automatic and is assured during the call phase by a relay device.

When the intercom service is activated, listening to the conversation from the loudspeaking unit of the video outdoor station is excluded.
If a call is made from the video outdoor station during an intercom conversation, all the video door phones are automatically switched to the outside.

The ◯ and ◇ service keys are used for intercom calls.
When the video door phones are called in parallel by the video outdoor station, they switch on at the same time. At the end of the conversation, the electric lock is released pressing the key.
Viewing lasts approximately 60 seconds, after which it is interrupted automatically following tripping of the timer incorporate in the power supply.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3220:

VIDEO DOOR PHONE REFERENCES

Utopia model

N. 2	Video door phones	**Ref. 1703/1**
N. 2	Bracket	**Ref. 1703/90**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/41**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module with camera	**Ref. 1755/41**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Door phone power supply with relay	**Ref. 786/15**
N. 1	Kit of 10 diodes	**Ref. 1131/4**

DIAGRAM NOTES

(see section 1)

C4.006
Sinthesi models only:
Connect jumper L with G/T

C4.014 VD.002 VX.003 VX.008 VX.014 VX.031

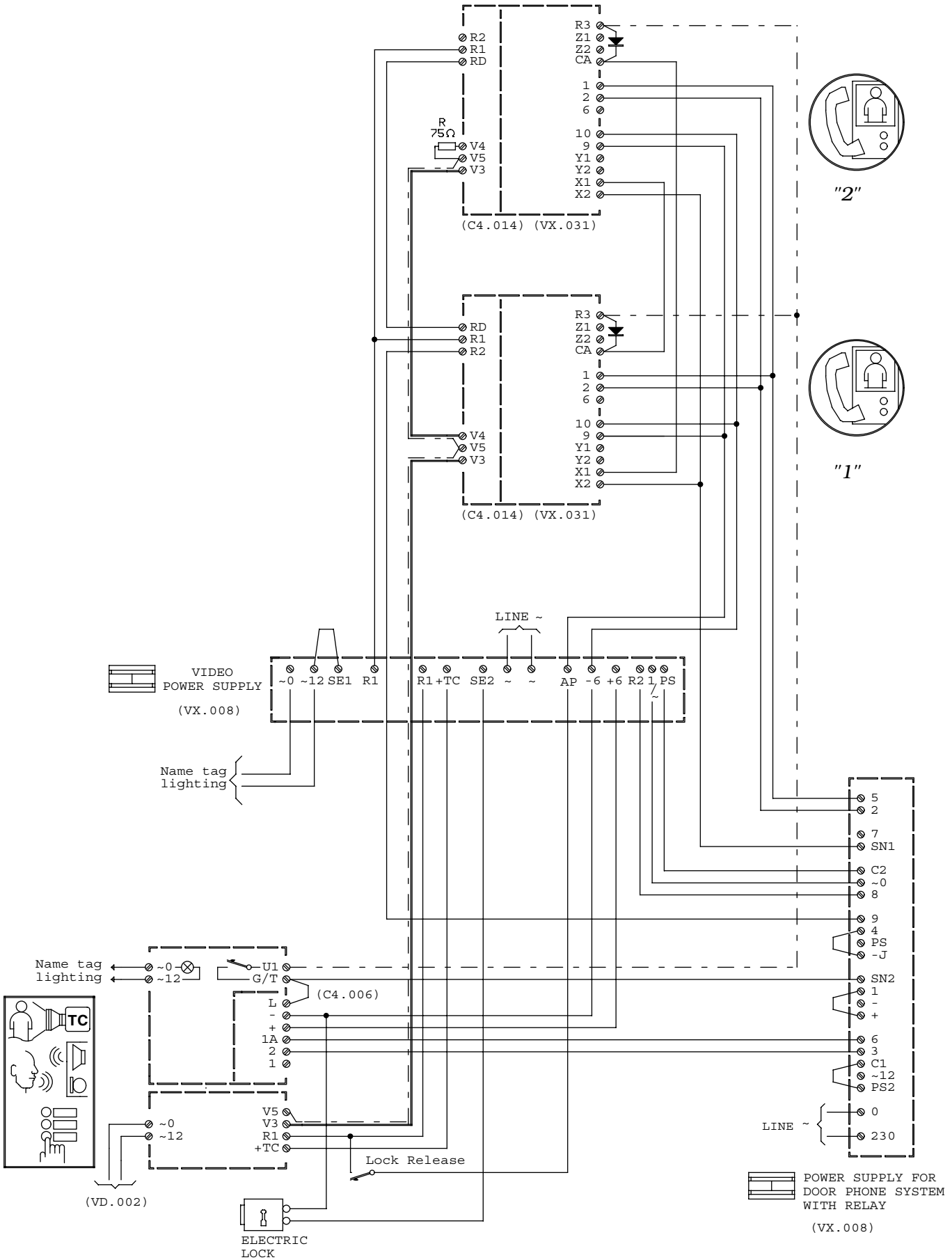
urmet DOMUS

CONNECTION OF 2 INTERCOM UTOPIA VIDEO DOOR PHONES WITH POSSIBILITY OF ANSWERING CALLS FROM 1 ELECTRICAL VIDEO DOOR UNIT

Single call from outside with concurrent power-on

coax

SV102-3220



coax

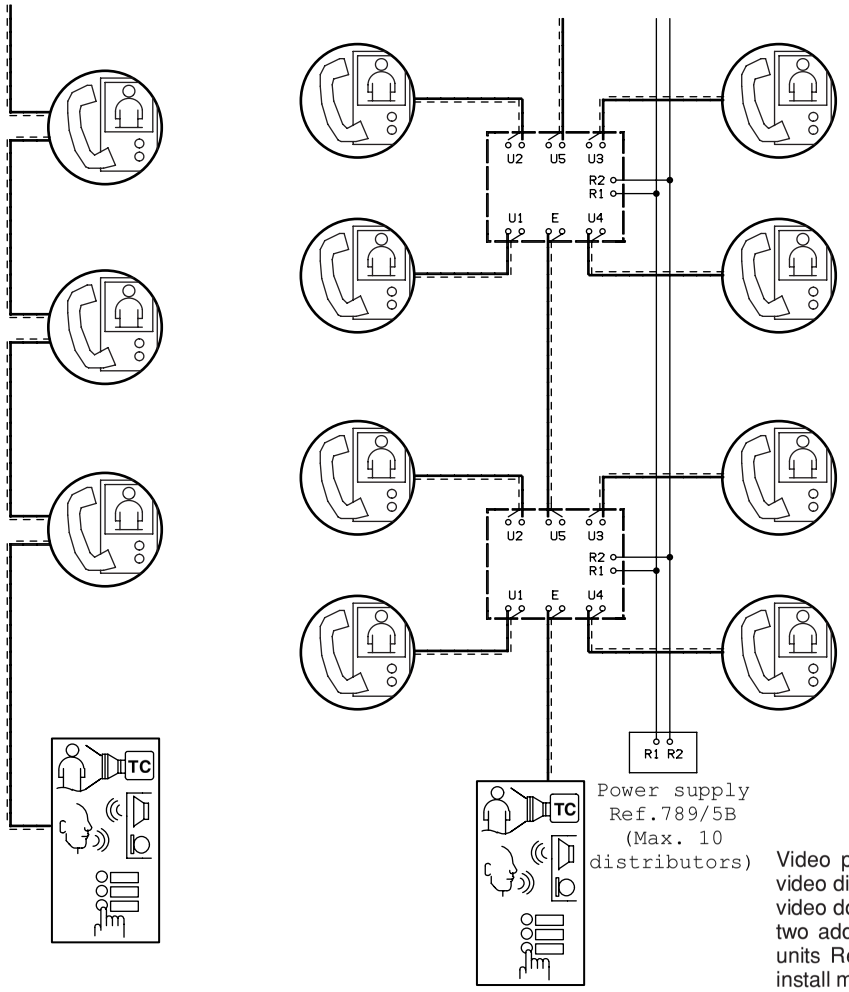
SV102-3294

EXAMPLES OF COAXIAL CABLE CONNECTION

ONE RISER

SERIES CONNECTION
The cable goes in and
ıes out from each video door phone

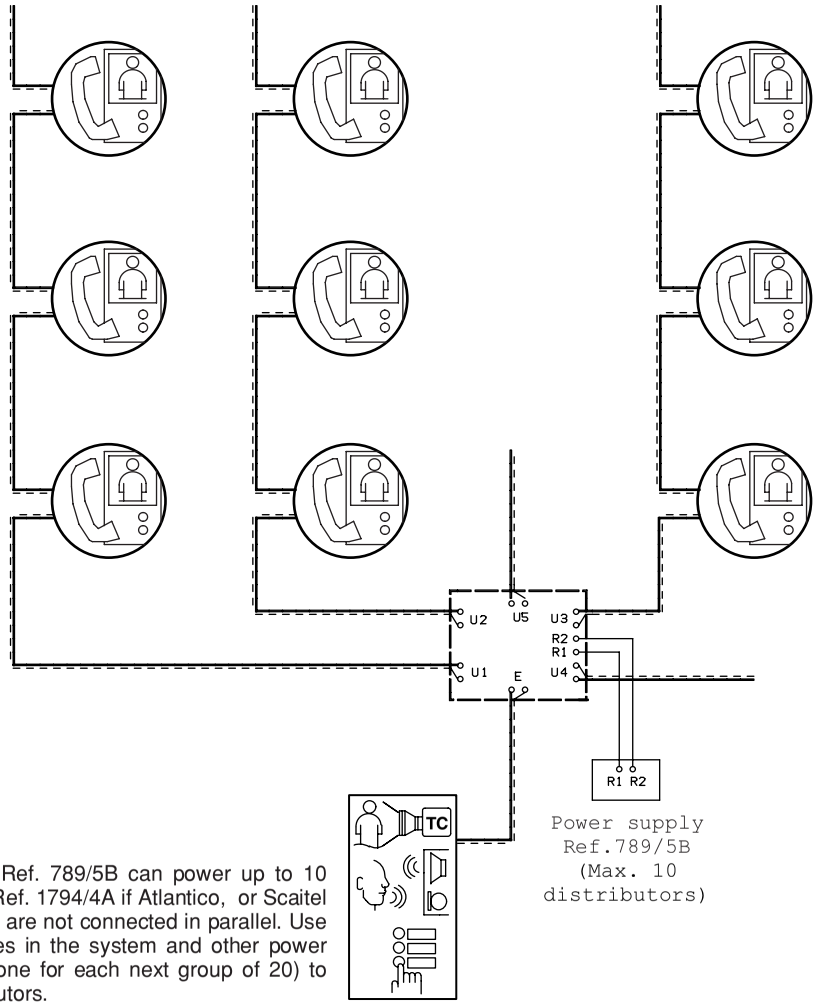
CONNECTION WITH DISTRIBUTION
TO THE FLOORS



Power supply
Ref.789/5B
(Max. 10
distributors)

SEVERAL RISER

CONNECTION WITH DISTRIBUTION AT RISER BEGINNING
In each riser the cable goes in and
comes out from each video door phone

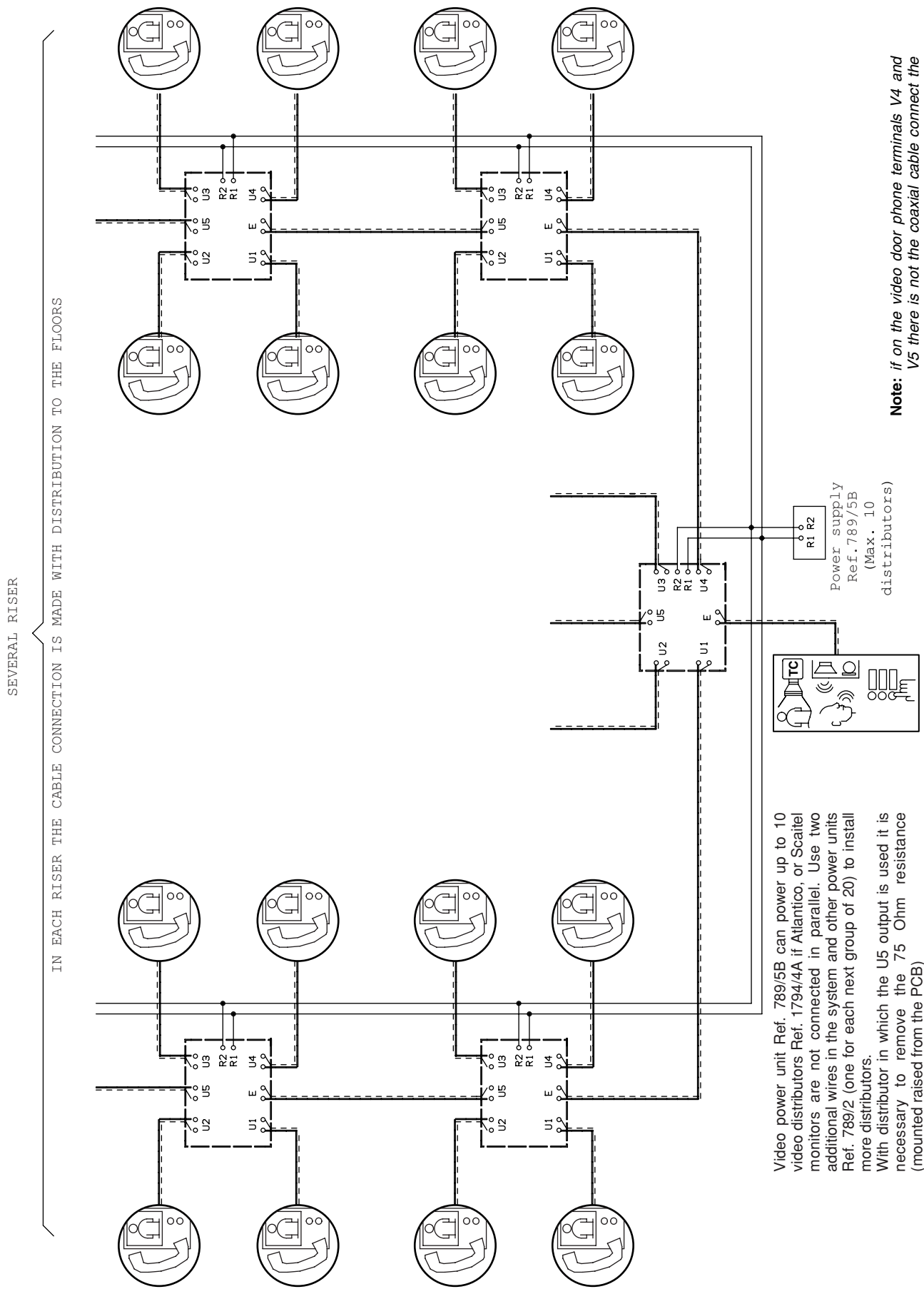


Power supply
Ref.789/5B
(Max. 10
distributors)

Video power unit Ref. 789/5B can power up to 10 video distributors Ref. 1794/4A if Atlantico, or Scaitel video door phones are not connected in parallel. Use two additional wires in the system and other power units Ref. 789/2 (one for each next group of 20) to install more distributors.
With distributor in which the U5 output is used it is necessary to remove the 75 Ohm resistance (mounted raised from the PCB) .

Note: *if on the video door phone terminals V4 and V5 there is not the coaxial cable connect the 75Ω 1/4W resistance.*

urmet DOMUS



Note: *if on the video door phone terminals V4 and V5 there is not the coaxial cable connect the 75Ω 1/4W resistance.*

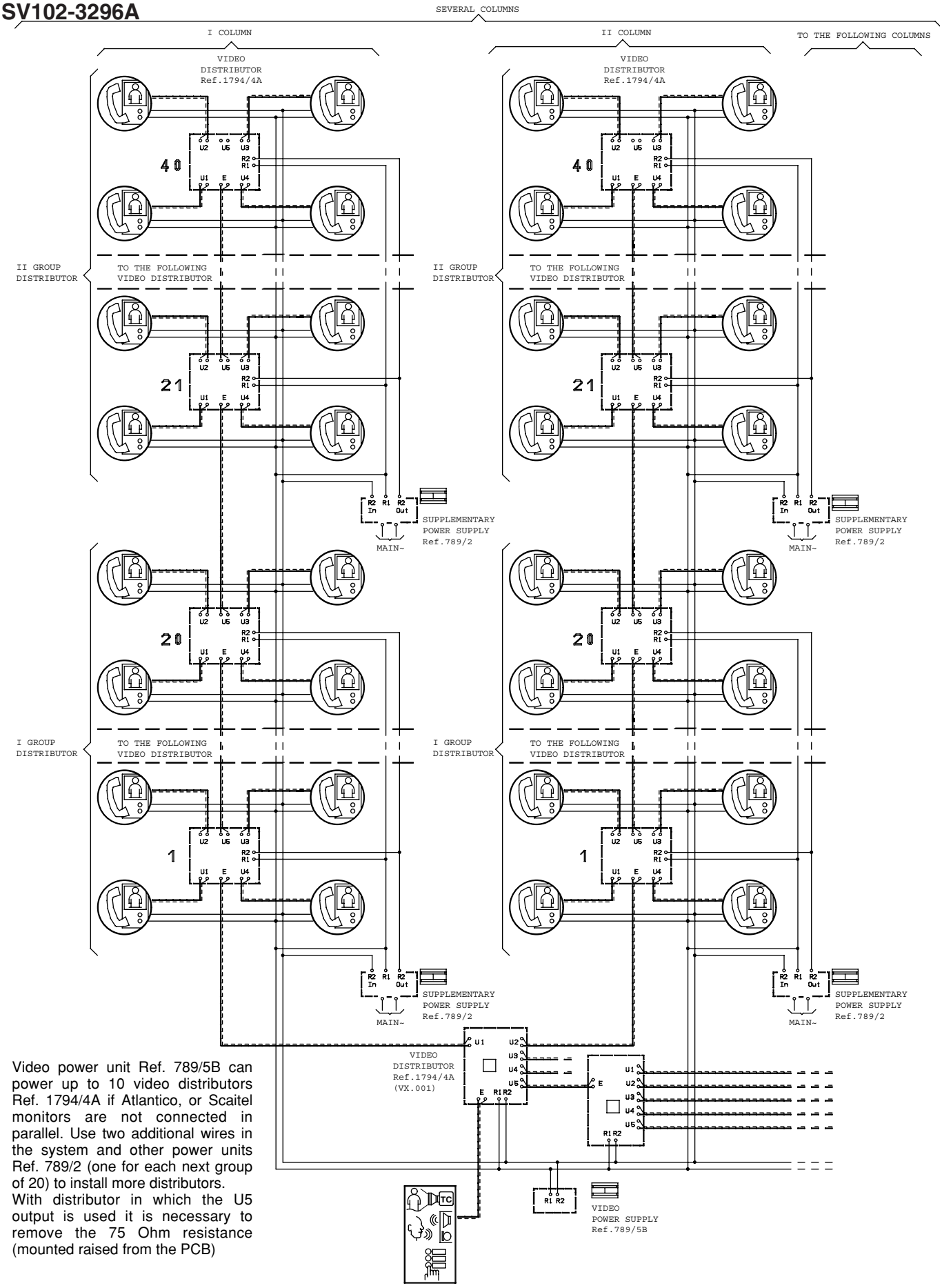
Video power unit Ref. 789/5B can power up to 10 video distributors Ref. 1794/4A if Atlantico, or Scaitel monitors are not connected in parallel. Use two additional wires in the system and other power units Ref. 789/2 (one for each next group of 20) to install more distributors.
With distributor in which the U5 output is used it is necessary to remove the 75 Ohm resistance (mounted raised from the PCB)

coax

EXAMPLES OF COAXIAL CABLE CONNECTION

urmet DOMUS

SV102-3296A



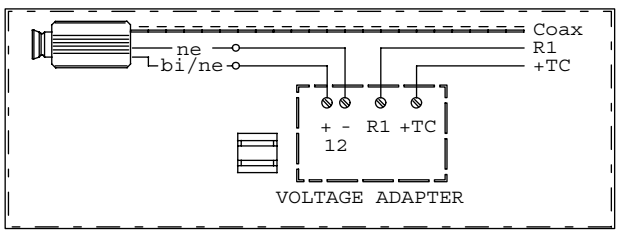
Video power unit Ref. 789/5B can power up to 10 video distributors Ref. 1794/4A if Atlantico, or Scaitel monitors are not connected in parallel. Use two additional wires in the system and other power units Ref. 789/2 (one for each next group of 20) to install more distributors.
With distributor in which the U5 output is used it is necessary to remove the 75 Ohm resistance (mounted raised from the PCB)

SV102-3229A

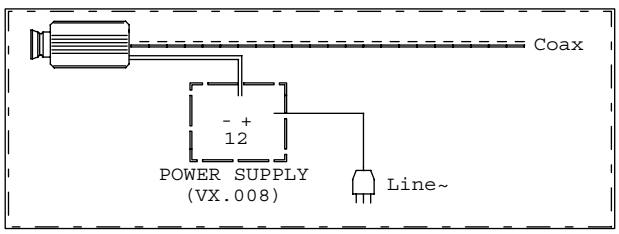
CAMERA					
Vision	**Ref.**	**Risolution (line)**	**Power voltage**	**Power supply adviced Ref.**	**Example of connection**
B/W	1090/108	380	12 Vcc (VX.032)	1840/44	1
				1090/850 or 1090/849	2
	1090/141	>380		1840/44	1
				1090/850 or 1090/849	2
	1090/142	>380	230 Vca	- -	3
	1092/001A	420	12 Vcc (VX.033)	1840/44	1
				1090/850 or 1090/849	2
	1092/002A	420	230 Vca	- -	3
	1090/122	420	230 Vca	- -	3
COLOUR	1090/215	380	230 Vca	- -	3
	1090/241	350	12 Vcc (VX.032)	1840/44	1
				1090/849	2
	1090/243	350	230 Vca	- -	3
NOTE: For optics, bracket, custody see the TVCC technical manual.					

MICROCAMERA							
Vision	**Use**	**Ref.**	**Risolution (line)**	**Power voltage**	**Power supply adviced Ref.**	**Accessories Ref.**	**Example of connection**
B/W	Internal	1090/117	>420	12Vdc (VX.032)	1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
		1090/185	420		1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
		1090/187	>420		1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
		1090/189	>420		1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
	External	1090/191	420		1090/849	- -	2
		1090/194	420		1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
COLOUR	Internal	1090/188	300	12Vdc (VX.032)	1840/44	1090/840	1
					1090/850 or 1090/849	1090/840 only for 1090/850	2
	External	1090/198	380		1840/44	1090/840	1
					1090/849	- -	2

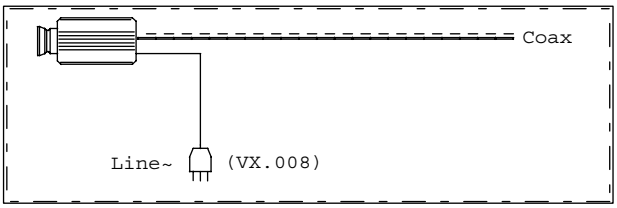
Example 1



Example 2



Example 3



5-WIRE ELECTRONIC VIDEO DOOR PHONE SYSTEMS

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Technical Manuals area

5 wires

SECTION 1E CONTENTS

DOOR PHONE AND VIDEO DOOR PHONE SYSTEM - DIAGRAM

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5-WIRE VIDEO DOOR PHONE SYSTEM DIAGRAM CROSS-REFERENCE TABLE

| LIST OF AVAILABLE FUNCTIONS | | |

5 wires

CONNECTION OF 2 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT

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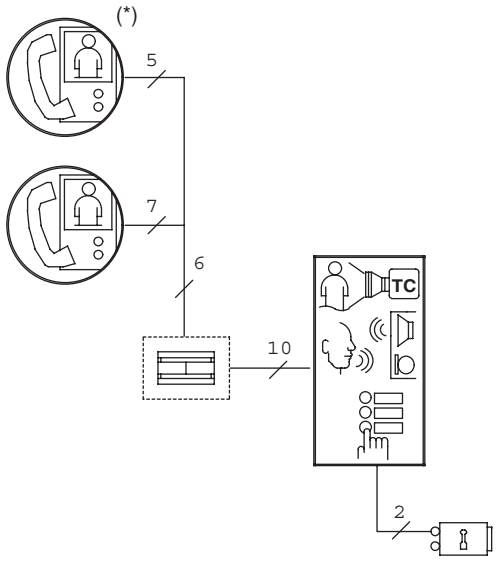
FUNCTION

The system can be used to connect the video door unit to various video door phones fitted in apartments.
When a visitor presses a button on the panel, a two-tone electronic call signal is sent to the corresponding video door phone speaker and the image appears on the screen a few seconds later.
At this point, the user can see the visitor and reply by picking up the handset.
All video door phones are normally deactivated (no sound is heard when the handset is picked up); only the video door phone called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called video door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3147B:

"5-WIRE" VIDEO DOOR PHONE KIT DIAGRAMS

N. 1 One-family kit (1 button)
with Atlantico video door phone **Ref. 1702/601**
consisting of:
- Sinthesi camera with integrated door unit and 1 calling button Ref. 1745/21
- 1 Atlantico video door phone Ref. 1702/1 with bracket Ref. 1202/955
- Flush-mounting box for 2 modules Ref. 1145/52
- Module holder with frame for 2 modules Ref. 1145/62
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

N. 1 One-family kit (1 button)
with Artico video door phone **Ref. 1705/601**
consisting of:
- Sinthesi camera with integrated door unit and 1 calling button Ref. 1745/21
- 1 Artico video door phoneRef. 1705/1 with bracket Ref. 1705/955
- Flush-mounting box for 2 modules Ref. 1145/52
- Module holder with frame for 2 modules Ref. 1145/62
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

N. 1 Two-family kit (2 buttons)
with Atlantico video door phone **Ref. 1702/602**
consisting of:
- Sinthesi camera with integrated door unit and 2 calling buttons Ref. 1745/22
- 2 Atlantico video door phones Ref. 1702/1 with bracket Ref. 1202/955
- Flush-mounting box for 2 modules Ref. 1145/52
- Module holder with frame for 2 modules Ref. 1145/62
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

or

N. 1 Two-family kit (2 buttons)
with Artico video door phone **Ref. 1705/602**
consisting of:
- Sinthesi camera with integrated door unit and 2 calling buttons Ref. 1745/22
- 2 Artico video door phones Ref. 1705/1 with bracket Ref. 1705/955
- Flush-mounting box for 2 modules Ref. 1145/52
- Module holder with frame for 2 modules Ref. 1145/62
- Power unit 230Vac-38VA, 10 DIN modules Ref. 789/5B

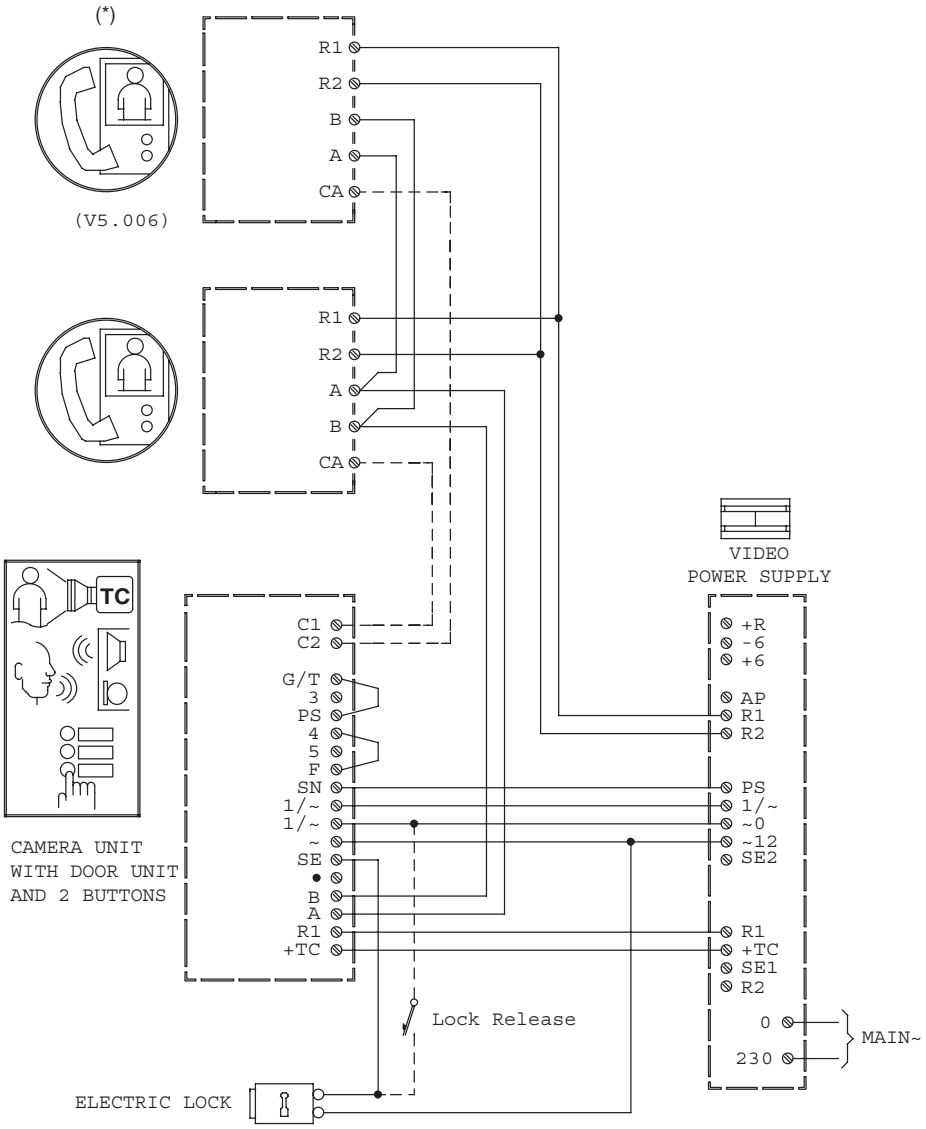
DIAGRAM NOTES

(see section 1)

V5.001
V5.006

(*) For two-family kits only

SV102-3147B


(*)
(V5.006)
R1
R2
B
A
CA
R1
R2
A
B
CA
TC
CAMERA UNIT
WITH DOOR UNIT
AND 2 BUTTONS
C1
C2
G/T
3
PS
4
5
F
SN
1/~
1/~
~
SE
•
B
A
R1
+TC
VIDEO
POWER SUPPLY
+R
-6
+6
AP
R1
R2
PS
1/~
~0
~12
SE2
R1
+TC
SE1
R2
0
230
MAIN~
Lock Release
ELECTRIC LOCK

5 wires

CONNECTION OF 1 VIDEO DOOR PHONE TO 1 VIDEO DOOR UNIT

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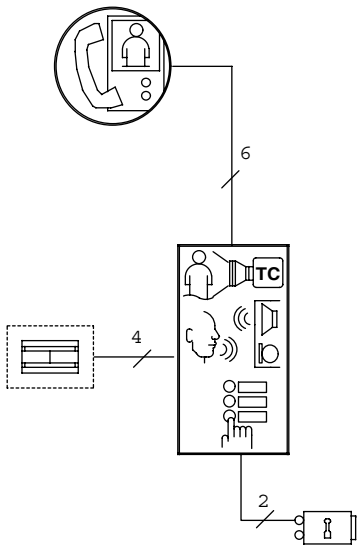
FUNCTION

The system can be used to connect the video door unit to the video door phone fitted in the apartment.
When a visitor presses a button on the panel, a two-tone electronic call signal is sent to the corresponding video door phone speaker and the image appears on the screen a few seconds later.
At this point, the user can see the visitor and reply by picking up the handset.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2082C:

VIDEO DOOR PHONE REFERENCES

N. 1 One-family kit (1 button) consisting of:
- Smyle panel with camera and 1 button with built-in door unit.
- 1 Artico video door phone with bracket
- Power unit 110-230Vac 38VA, 7 DIN modules

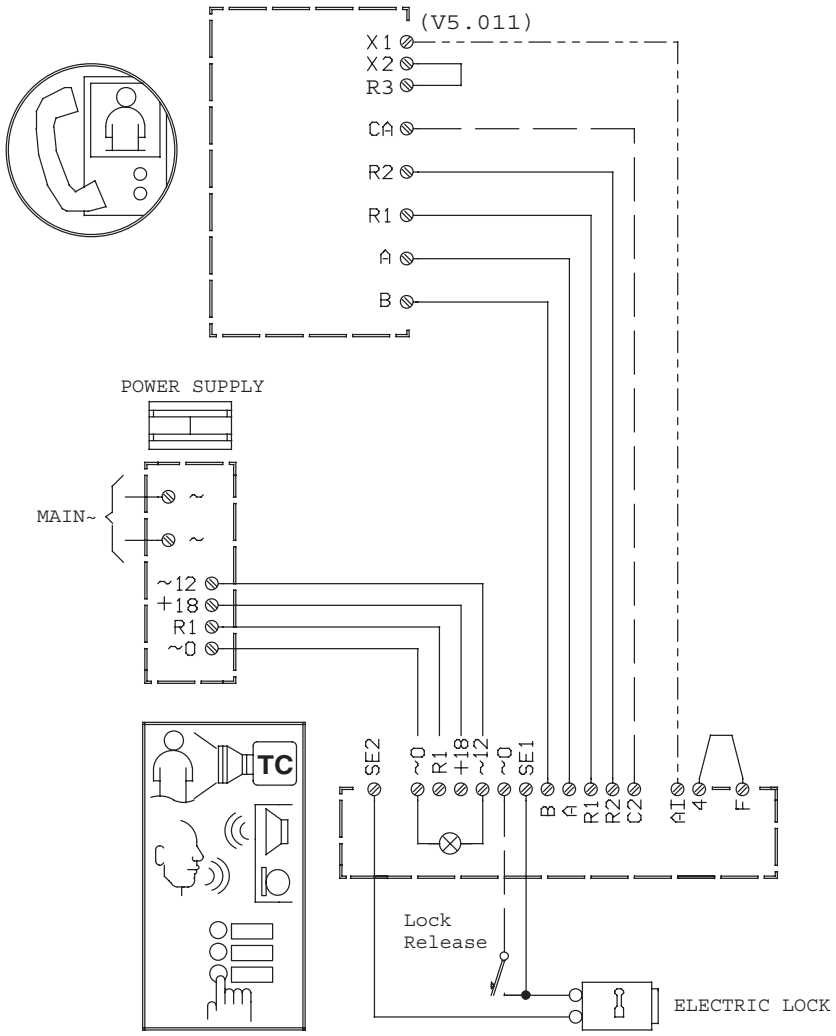
Ref. 956/31

DIAGRAM NOTES

(see section 1)

V5.007
V5.011

SV102-2082C



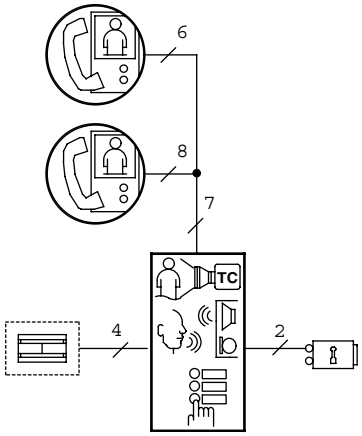
urmet DOMUS

CONNECTION OF 2 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT

5 wires

FUNCTION

The system can be used to connect the video door unit to the video door phone fitted in the apartment.
When a visitor presses a button on the panel, a two-tone electronic call signal is sent to the corresponding video door phone speaker and the image appears on the screen a few seconds later.
At this point, the user can see the visitor and reply by picking up the handset.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2081B:

VIDEO DOOR PHONE KIT DIAGRAMS

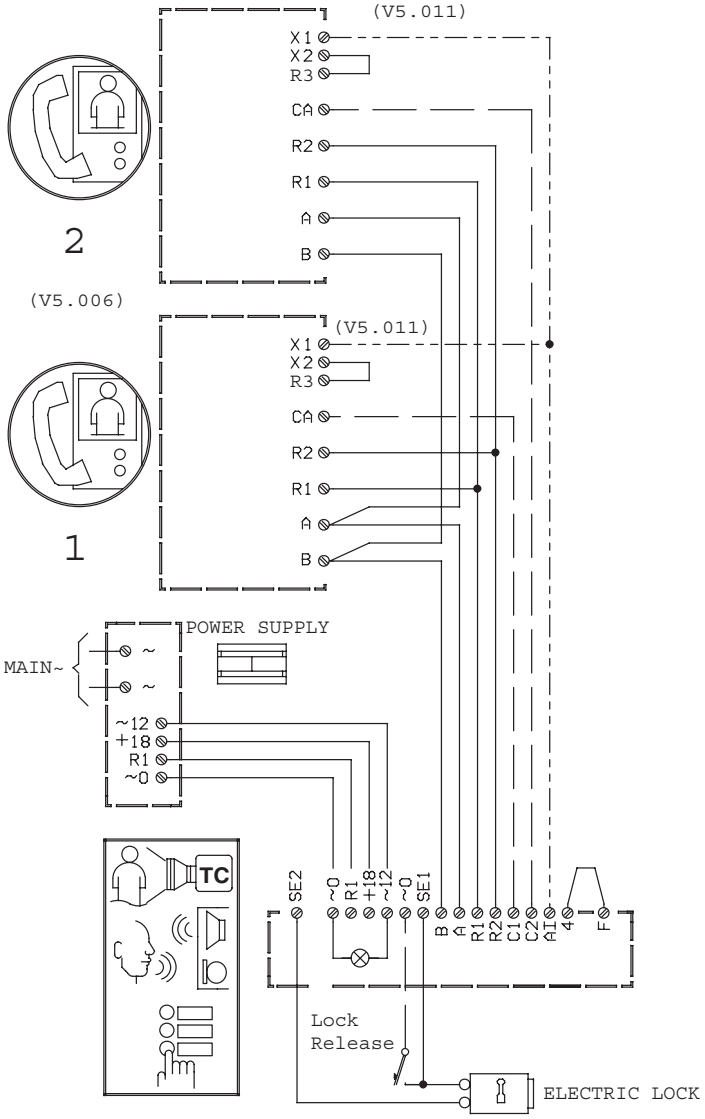
N. 1 Two-family kit
(2 buttons)
consisting of:
- Smyle panel with camera and 2 buttons with built-in door unit.
- 2 Artico video door phones with bracket
- Power unit 110-230Vac 38VA, 7 DIN modules

Ref. 956/32

DIAGRAM NOTES

(see section 1)

V5.007
V5.011



SV102-2081B

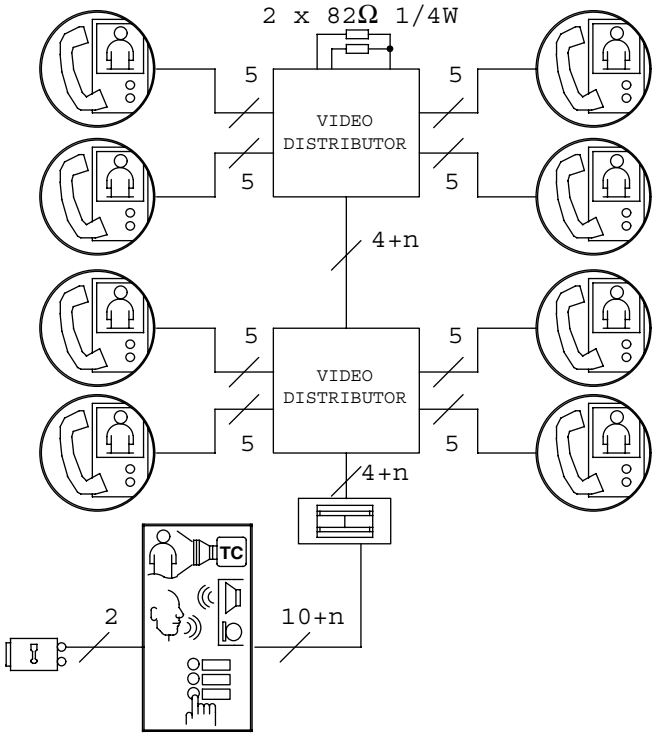
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION

urmet DOMUS

FUNCTION

The 5-wire video door phone system implements conversation privacy, call and door opener functions in normal door phone systems with only 5 wires in the riser column: 4 commons + 1 single for each device.
The door unit is powered with only two wires and a transformer at 12V~.
The most interesting application of a 5-wire system is in old buildings where a door phone system is already fitted. The existing system can be transformed into a video door phone system without adding wires to the column or in the apartments.
Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all video door phones in the system (one for each button). All video door phones are normally deactivated (no sound is heard when the handset is picked up); only the video door phone called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called video door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2633H:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/30A**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

or

725 model

N. 1	Panel with N buttons	**Mod. 725**
N. 1	Amplified door unit	**Ref. 1035/67**
N. 1	Camera	**Ref. 725/600**
N. 1	Video adapter	**Ref. 1742/13A**
N. 1	Front plate	**Ref. 725/601-/602**
N. X/4	Conversation privacy device	**Ref. 1035/25**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

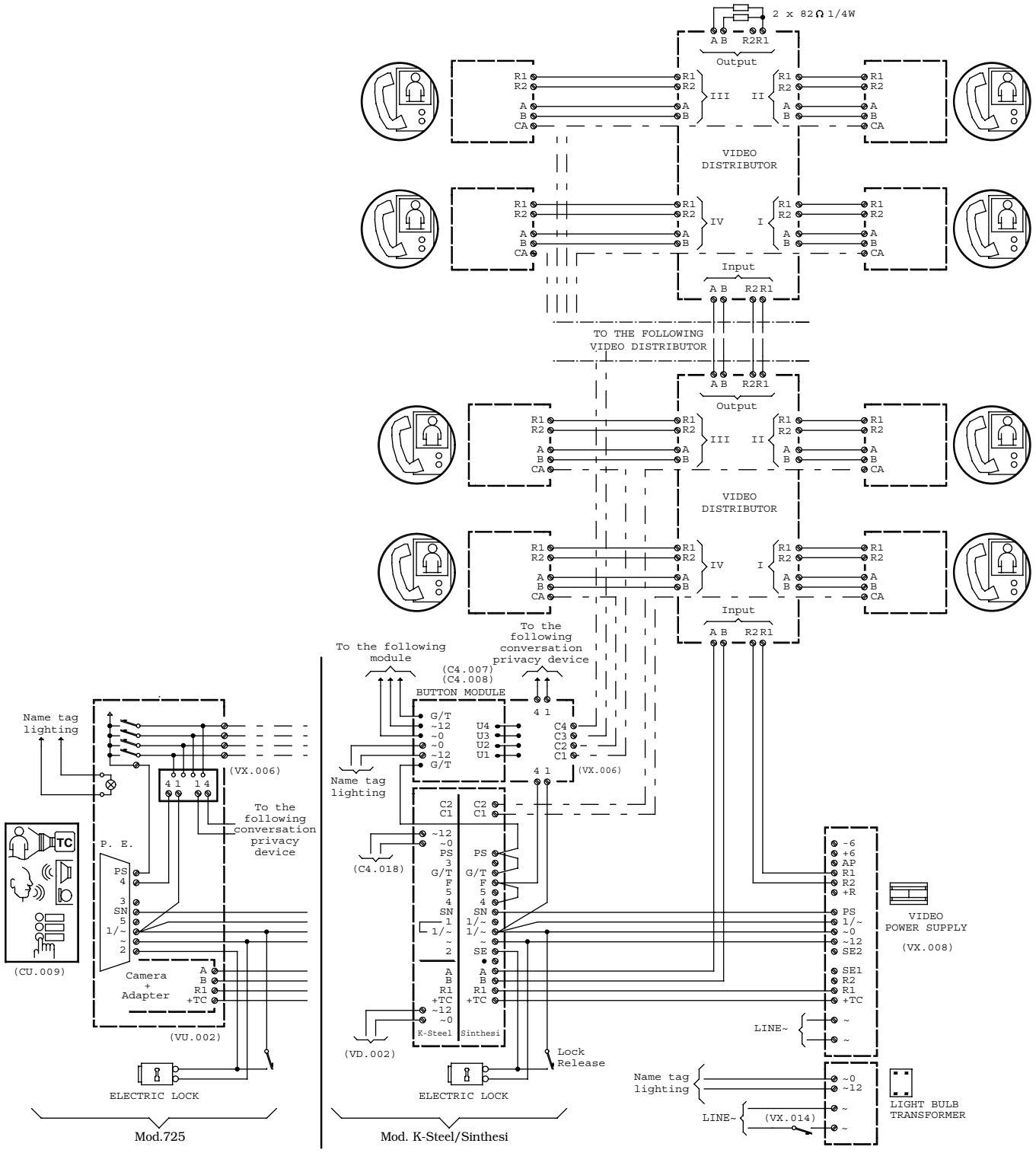
(see section 1)

C4.007 C4.008 C4.018 CU.009 VD.002
V5.001 VU.002 VX.006 VX.008 VX.014

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 1 VIDEO OUTDOOR STATION

5 wires

SV102-2633H



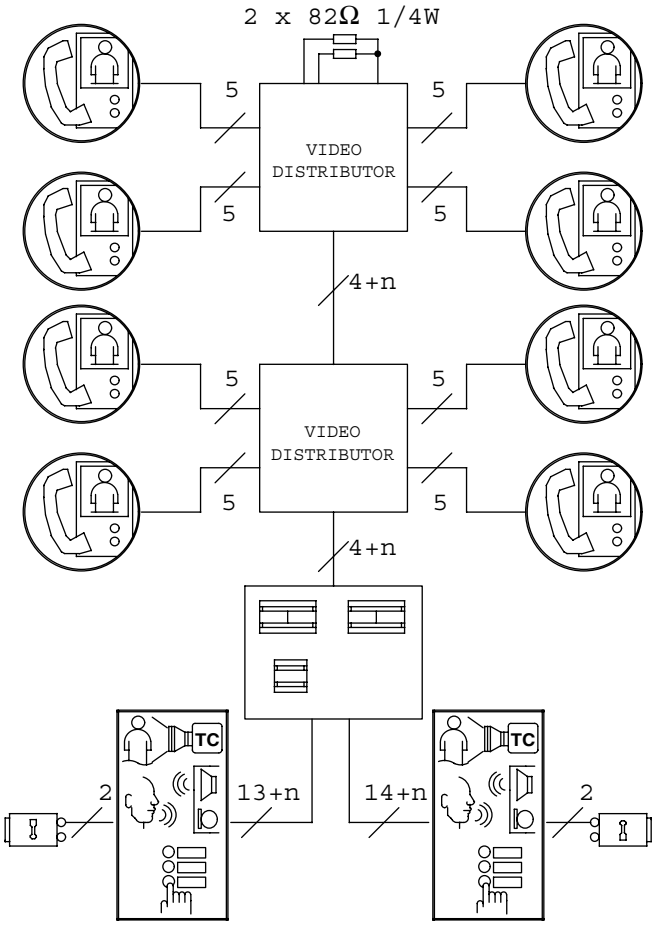
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 2 VIDEO OUTDOOR STATION
Automatic switching during calls (Mod. Sinthesi or Mod. K-Steel)

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 2 video outdoor stations with automatic switching.
When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 8 seconds.
During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service.
At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key.
If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. It is not possible therefore to communicate with the 2 video outdoor stations at the same time in that they operate alternatively and are mutually exclusive.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2902G:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 2	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 2	Module camera	**Ref. 1755/30A**
N. 2	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/51**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

C4.007 C4.008 C4.016 C4.018 CU.009 V5.001 VD.002 VX.006 VX.008 VX.014

VX.021
Cut or remove the jumpers on the device(s):
a) PS - G/T
b) 4 - F

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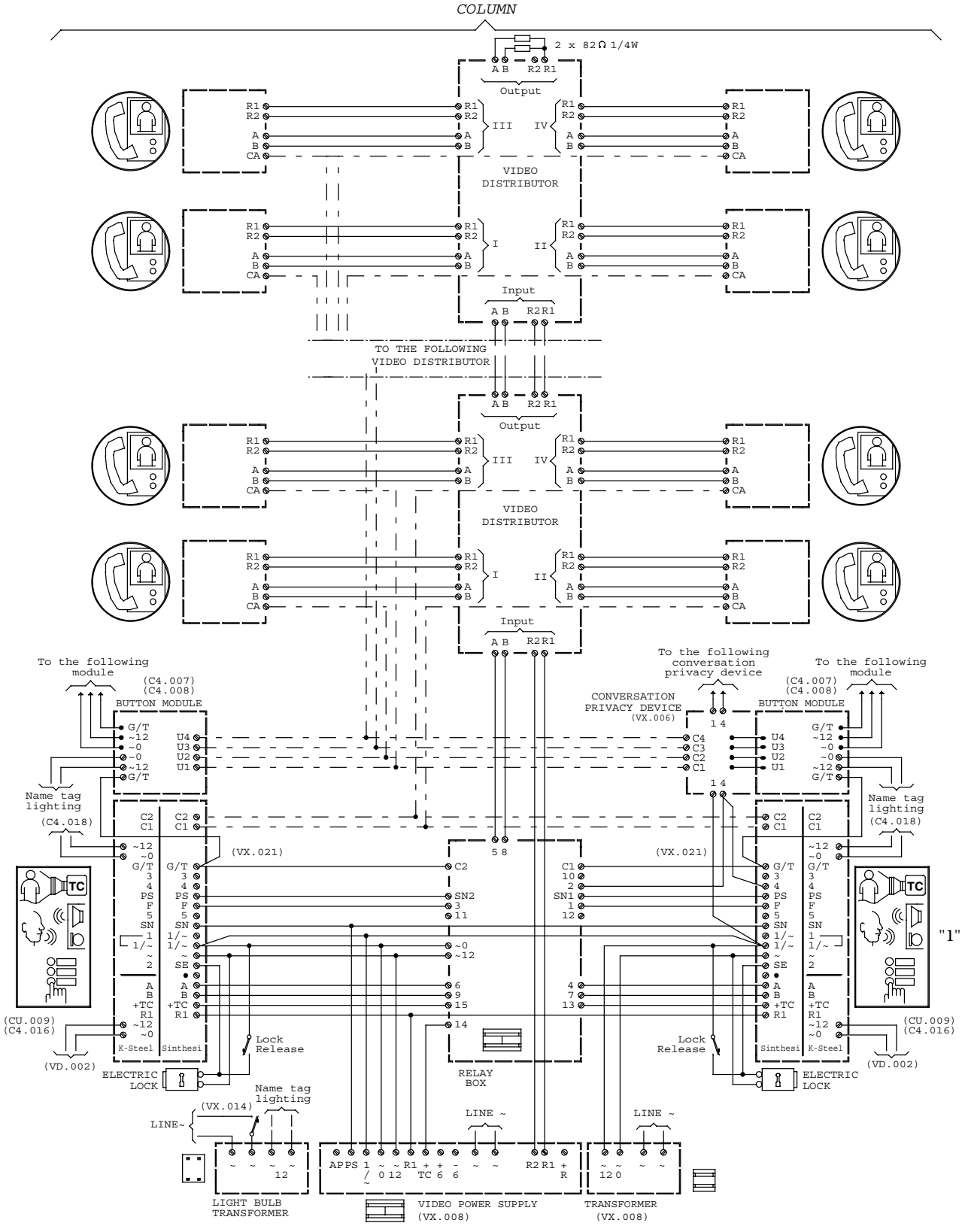
CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 2 VIDEO OUTDOOR STATION
Automatic switching during calls (Mod. Sinthesi or Mod. K-Steel)

5 wires

SV102-2902G



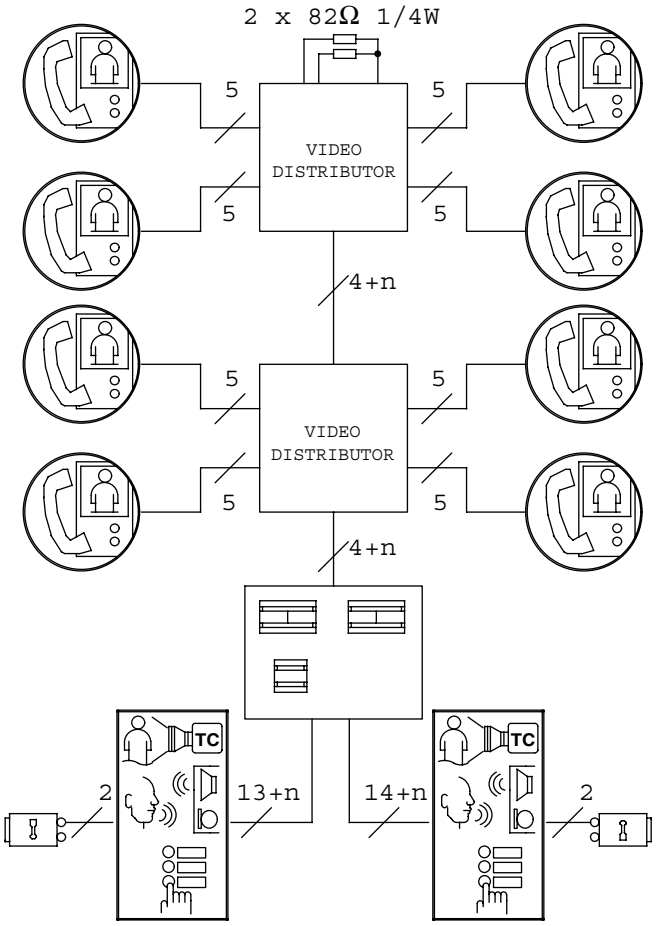
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 2 VIDEO OUTDOOR STATION
Automatic switching during calls (Mod. 725)

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 2 video outdoor stations with automatic switching.
When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 8 seconds.
During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service.
At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key.
If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. It is not possible therefore to communicate with the 2 video outdoor stations at the same time in that they operate alternatively and are mutually exclusive.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2913B:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

725 model

N. 2	Panel with N buttons	**Mod. 725**
N. 2	Amplified door unit	**Ref. 1035/67**
N. 2	Camera	**Ref. 725/600**
N. 2	Video adapter	**Ref. 1742/13A**
N. 2	Front plate	**Ref. 725/601-/602**
N. X/4	Conversation privacy device	**Ref. 1035/25**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/51**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

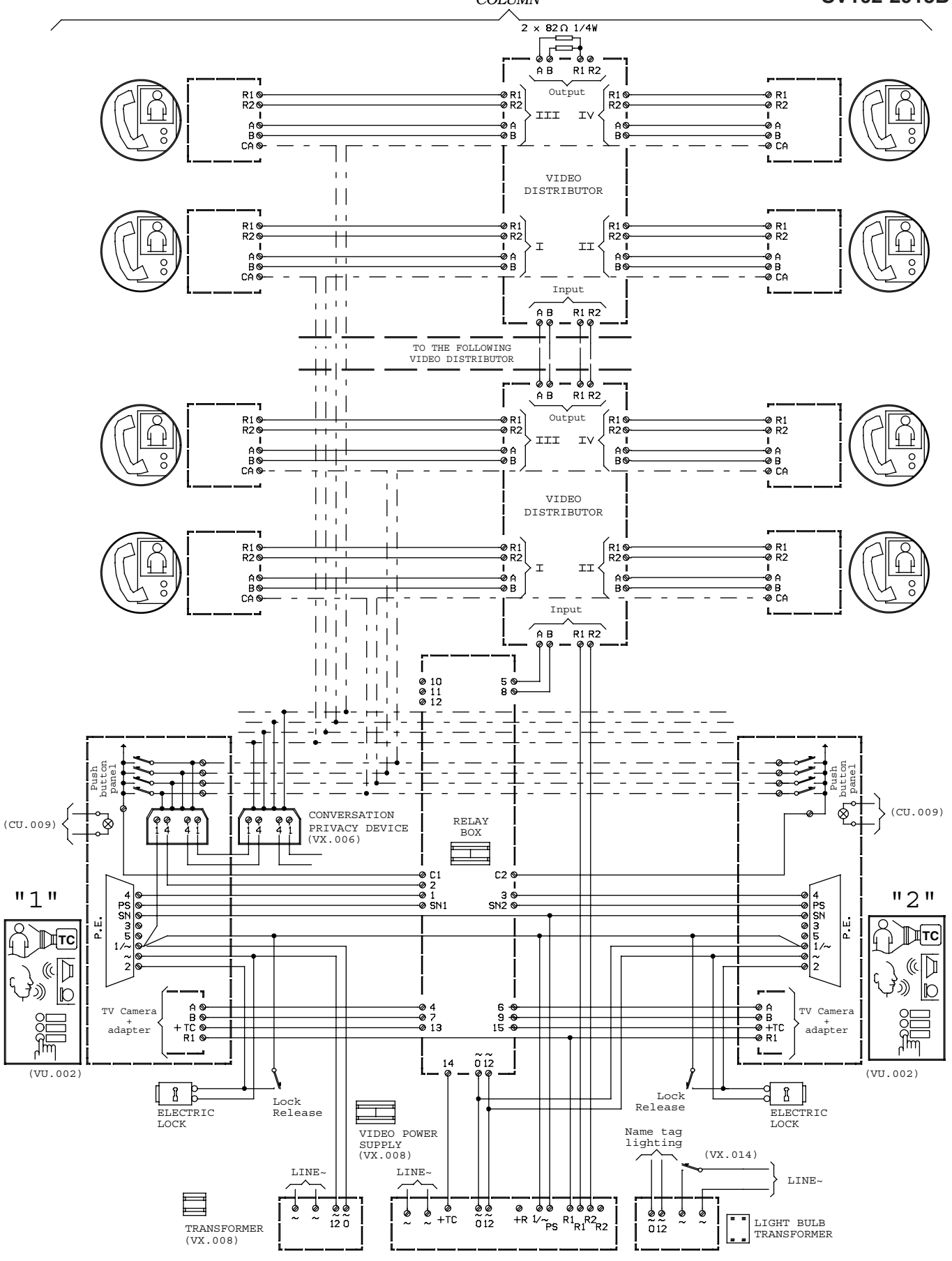
CU.009 V5.001 VU.002 VX.006 VX.008 VX.014

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 2 VIDEO OUTDOOR STATION
Automatic switching during calls (Mod. 725 or Mod. Domus Aura)

5 wires

SV102-2913B



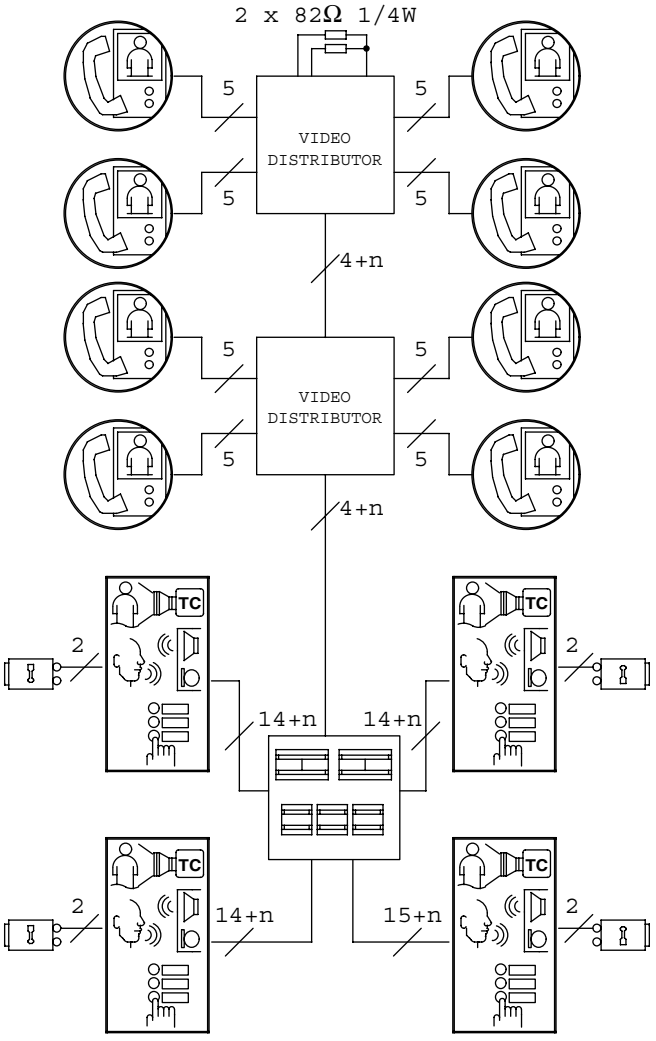
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 4 VIDEO OUTDOOR STATIONS
Automatic switching during calls (Mod. Sinthesi or Mod. K-Steel)

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 4 video outdoor stations with automatic switching. Therefore, it is suitable for a building with 4 entrances common to all apartments. When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 7 seconds. During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service. At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key. If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. In this system it is not possible to speak simultaneously from the four outdoor stations because they work one at a time in automatic switching.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3092D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 4	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 4	Module camera	**Ref. 1755/30A**
N. 4	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 3	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/54**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

C4.007 C4.008 C4.016 C4.018 CU.009 V5.001 VD.002 VX.006 VX.008 VX.014

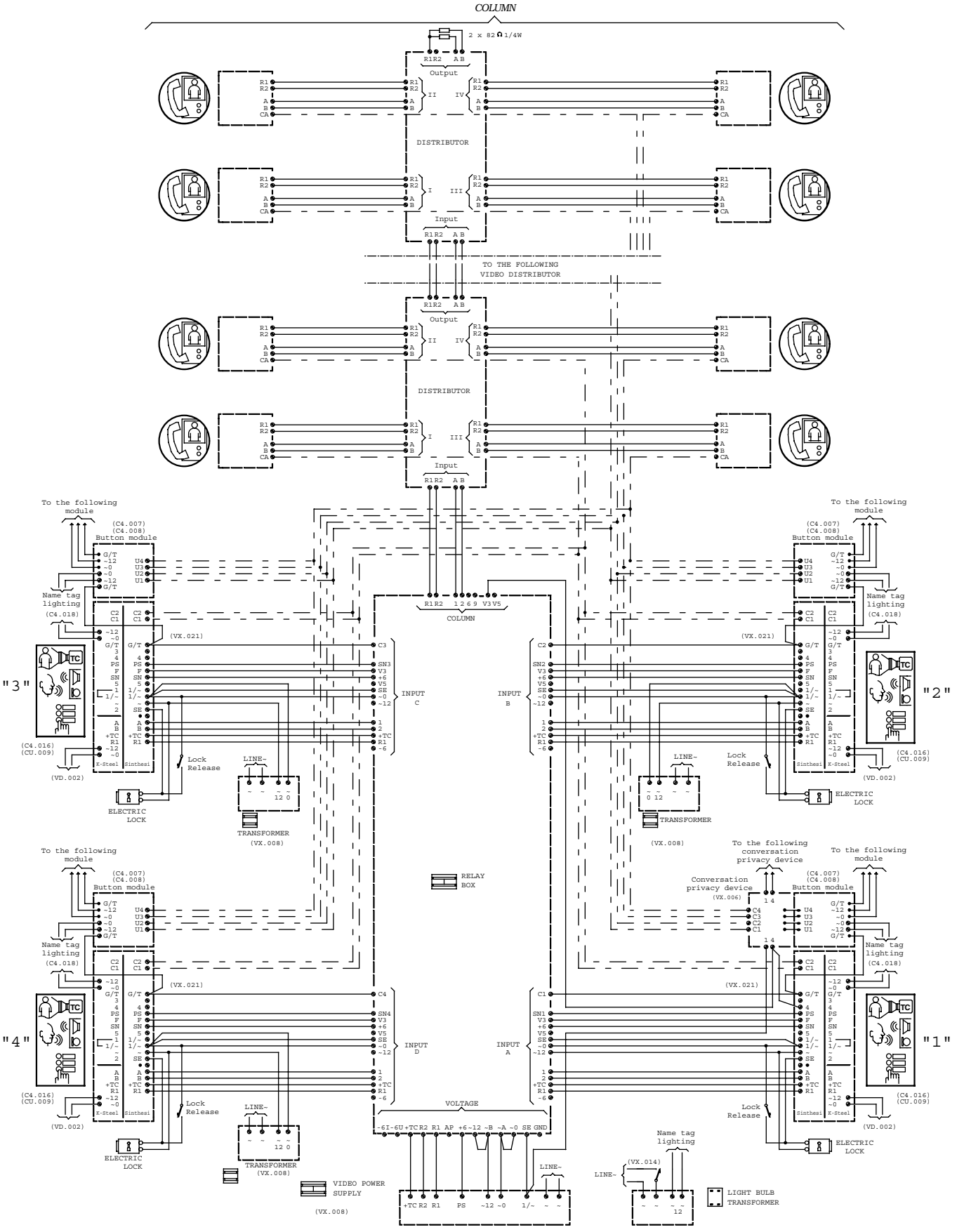
VX.021
Cut or remove the jumpers on the device(s):
a) PS - G/T
b) 4 - F

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 4 VIDEO OUTDOOR STATIONS
Automatic switching during calls (Mod. Sinthesi or Mod. K-Steel)

5 wires

SV102-3092D



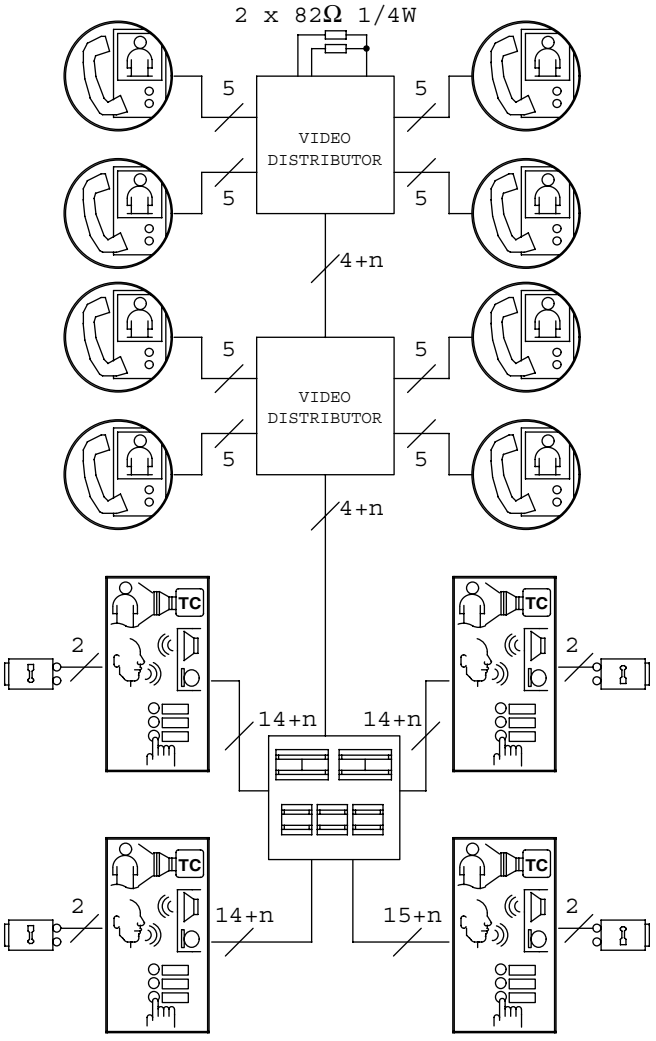
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 4 VIDEO OUTDOOR STATIONS Automatic switching during calls (Mod. 725)

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 4 video outdoor stations with automatic switching. Therefore, it is suitable for a building with 4 entrances common to all apartments. When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 7 seconds. During this phase, the relay box automatically inserts the relative loudspeaking unit and TV camera, excluding the other video outdoor station from the service. At this point, the user sees the visitor and may respond, if desired, lifting the handset. At the end of the call, only the electric lock of the entrance concerned is activated pressing the key. If, during a conversation, a call is made from the other push button panel towards another video door phone, the first will automatically switch off and the last video door phone called will be activated. In this system it is not possible to speak simultaneously from the four outdoor stations because they work one at a time in automatic switching.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-2806F:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

725 model

N. 4	Panel with N buttons	**Mod. 725**
N. 4	Amplified door unit	**Ref. 1035/67**
N. 4	Camera	**Ref. 725/600**
N. 4	Video adapter	**Ref. 1742/13A**
N. 4	Front plate	**Ref. 725/601-/602**
N. X/4	Conversation privacy device	**Ref. 1035/25**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Panels with anodized aluminium front plate Mod. 725” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 3	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/54**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

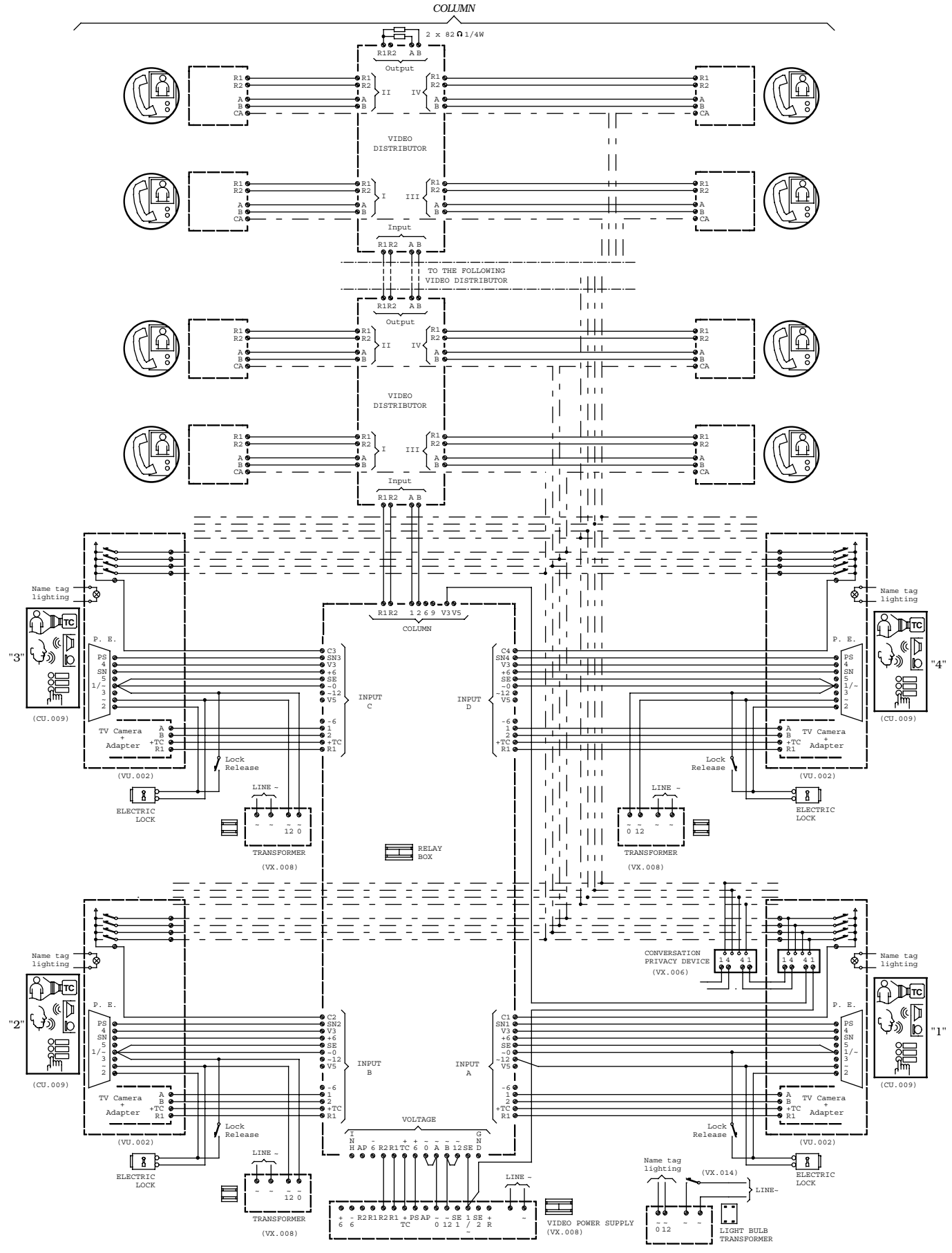
CU.009 V5.001
VX.006 VX.008 VX.014 VU.002

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 4 VIDEO OUTDOOR STATIONS
Automatic switching during calls (Mod. 725)

5 wires

SV102-2806F



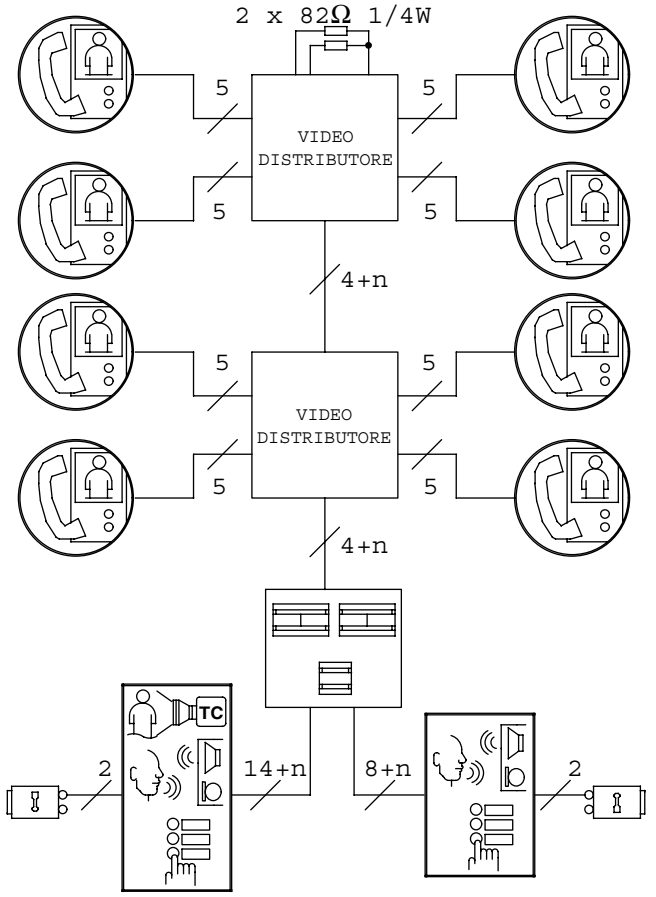
5 wires

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT
Automatic switching during calls (Mod. Sinthesi o K-Steel)

urmet DOMUS

FUNCTION

This type of system is used to connect a video door phone column to an automatically switching video door unit or door unit.
A two-tone electronic call is sent to the corresponding video door phone speaker when a call button is pressed on either of the two panels; the picture appears on the screen after approximately seven seconds if the call was made by the video door unit.
The video door phone will not light up and the video door phone will work as a normal door phone if the call is made from thcamera unit and panel.
Press at the end of the call to open the concerned door electrical lock only.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3121C:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref.1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/30A**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21**
N. 1	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Transformer	**Ref. 9000/230**
N. 1	Relay box	**Ref. 788/51**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

C4.006 C4.007 C4.008 C4.016 C4.018 CU.009
V5.001 VD.002 VU.002 VX.006 VX.008 VX.014

VX.021a
Cut or remove the jumpers on the device(s):
a) PS - G/T b) 4 - F

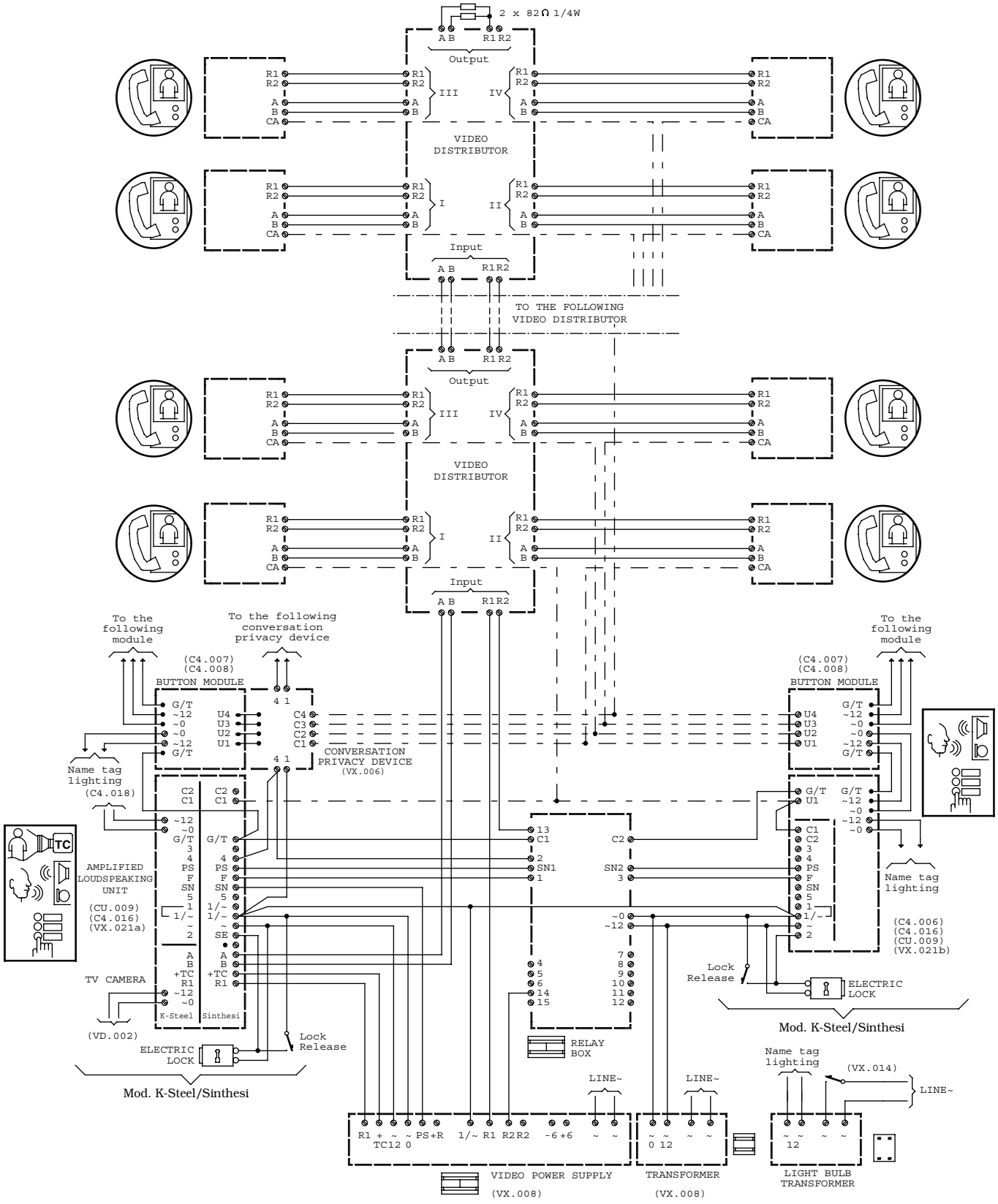
VX.021b
Cut or remove the jumpers on the device(s):
a) 4 - F

urmet DOMUS

CONNECTION OF SEVERAL VIDEO DOOR PHONE TO 1 VIDEO DOOR UNIT AND 1 DOOR UNIT
Automatic switching during calls (Mod. Sinthesi o K-Steel)

5 wires

SV102-3121C



5 wires

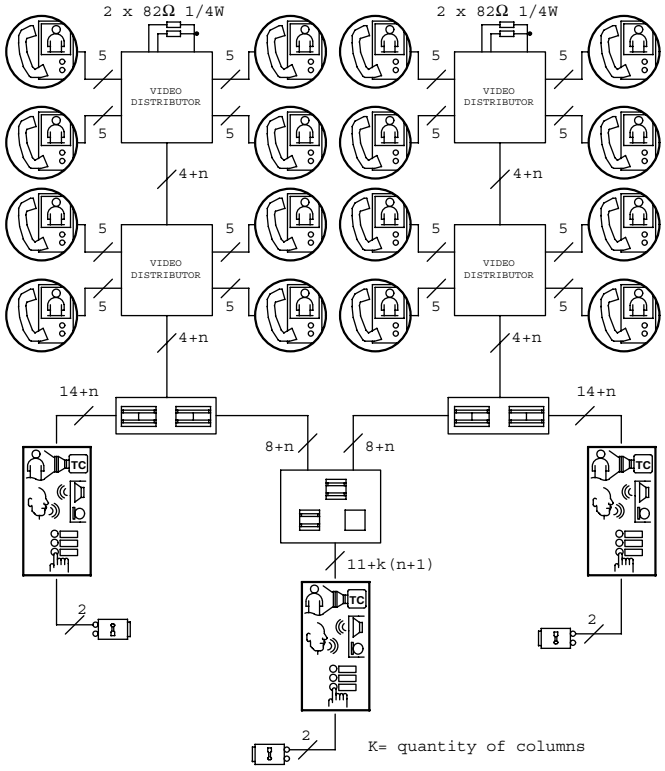
CONNECTION OF SEVERAL SETS OF VIDEO DOOR PHONES TO 1 MAIN VIDEO OUTDOOR STATION
Each column is also connected to its own secondary video outdoor station (Mod. Sinthesi or Mod. K-Steel)

urmet DOMUS

FUNCTION

This system is particularly suitable for residential properties where it is necessary to connect the single villas to a proper video outdoor station and to a common one located at the main entry.

During calling the video door phone is automatically switched on the main video outdoor station or to the secondary one of its own group, by means of the switching relay. The services for secondary video outdoor stations are independent, so that they be realized simultaneously.
When the call is coming from the main video outdoor station, only the group of the called video door phone is switched on it, the other ones continue to service towards the secondary.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3060B:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1+K	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1+K	Module camera	**Ref. 1755/30A**
N. 1+K	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. K	Video power supply	**Ref. 789/5B**
N. 1	Transformer	**Ref. 9000/230**
N. K	Relay box	**Ref. 788/51**
N. X	Video distributor	**Ref. 955/40**
N. 1	Supplementary power supply	**Ref. 1090/850**

DIAGRAM NOTES

(see section 1)

C4.007 C4.008 C4.014 C4.017 CU.009
V5.001 VD.002 VX.006 VX.008 VX.014

VX.021a
Cut or remove the jumpers on the device(s):
a) 4 - F

VX.021b
Cut or remove the jumpers on the device(s):
a) P1 - P2

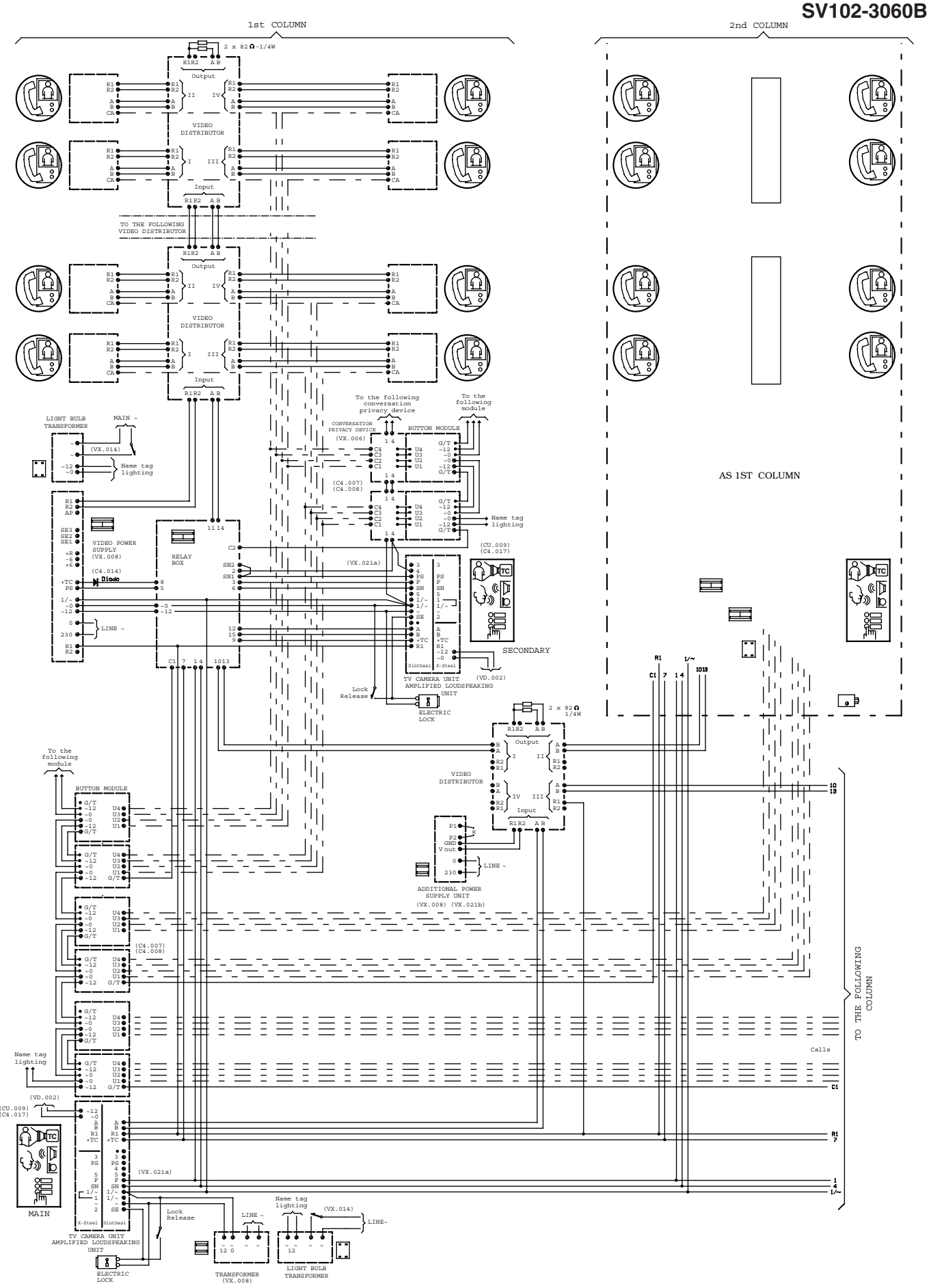
urmet DOMUS

CONNECTION OF SEVERAL SETS OF VIDEO DOOR PHONES TO 1 MAIN VIDEO OUTDOOR STATION

Each column is also connected to its own secondary video outdoor station (Mod. Sinthesi or Mod. K-Steel)

5 wires

SV102-3060B



5 wires

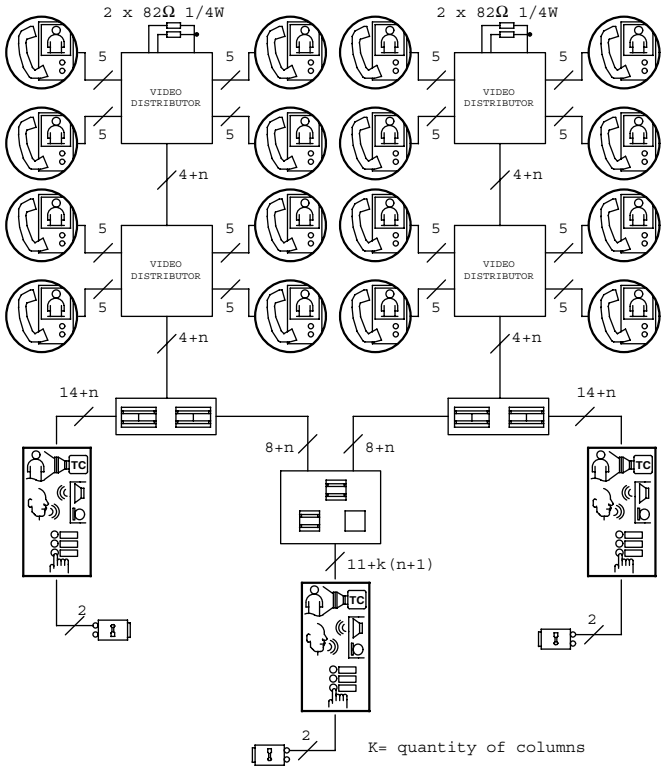
CONNECTION OF SEVERAL SETS OF VIDEO DOOR PHONES TO 1 MAIN VIDEO OUTDOOR STATION
Each column is also connected to its own secondary outdoor station (Mod. Sinthesi or Mod. K-Steel)

urmet DOMUS

FUNCTION

This system is particularly suitable for residential properties where it is necessary to connect the single villas to a proper video outdoor station and to a common one located at the main entry.

During calling the video door phone is automatically switched on the main video outdoor station or to the secondary one of its own group, by means of the switching relay. The services for secondary video outdoor stations are independent, so that they be realized simultaneously.
When the call is coming from the main video outdoor station, only the group of the called video door phone is switched on it, the other ones continue to service towards the secondary.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3094D:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

or

Artico model

N. X	Video door phone	**Ref. 1705/1**
N. X	Bracket	**Ref. 1705/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1	Module with camera and door unit	**Ref. 1745/20-/21-/22**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1	Module camera	**Ref. 1755/30A**
N. 1	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. K	Module with door unit set-up	**Ref. 1145/20-/21**
N. K	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. X	Button modules	**Ref.1155/11-/12A-/13A-/14A**
N. K	Module with door unit	**Ref. 1155/30-/31-/32A**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. K	Video power supply	**Ref. 789/5B**
N. 1	Transformer	**Ref. 9000/230**
N. K	Relay box	**Ref. 788/51**
N. X	Video distributor	**Ref. 955/40**
N. 1	Supplementary power supply	**Ref. 1090/850**
N. X	Kit of 10 diodes	**Ref. 1131/4**

DIAGRAM NOTES

(see section 1)

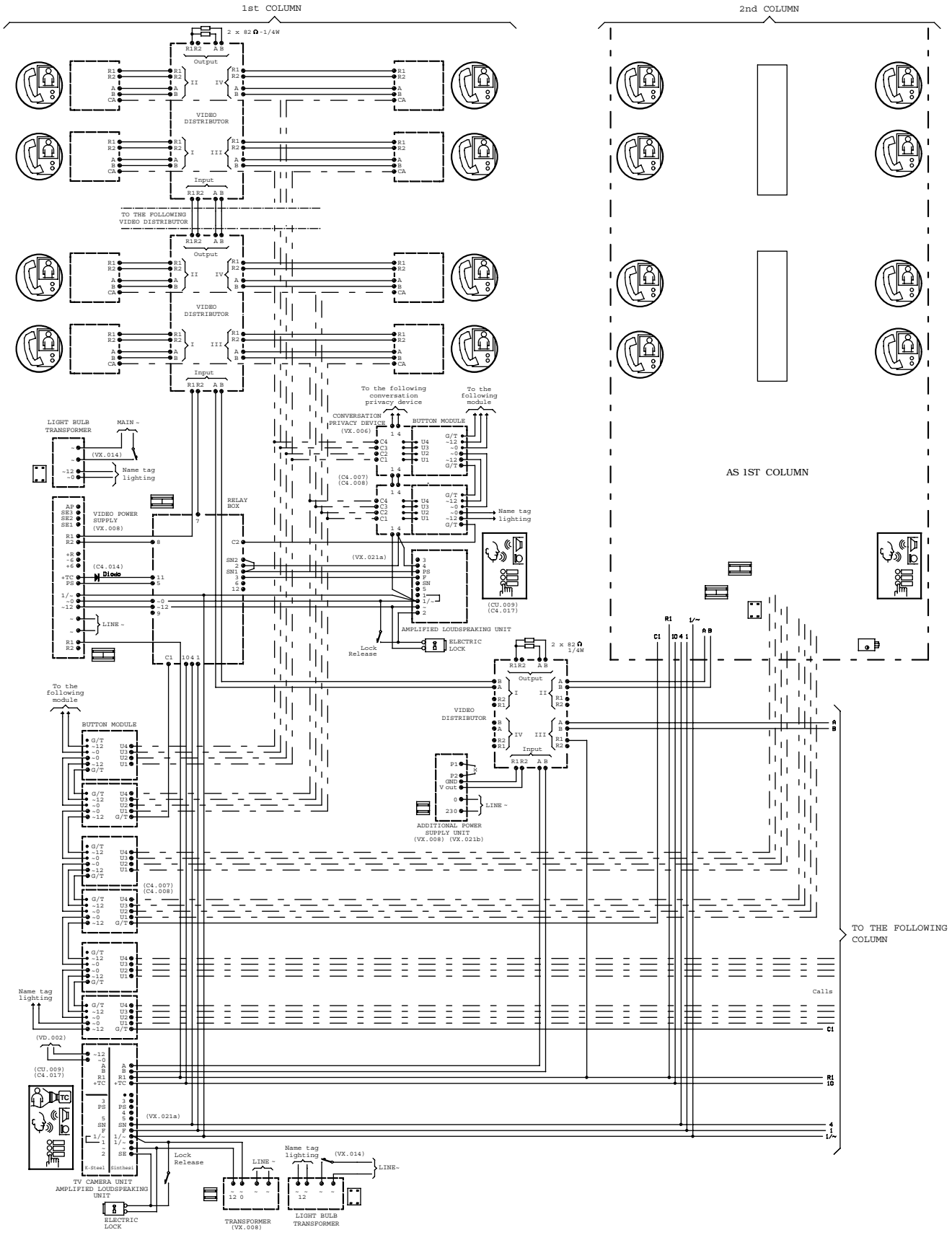
C4.007 C4.008 C4.014 C4.017 CU.009
V5.001 VD.002 VX.006 VX.008 VX.014

VX.021a
Cut or remove the jumpers on the device(s):
a) 4 - F

VX.021b
Cut or remove the jumpers on the device(s):
a) P1 - P2

CONNECTION OF SEVERAL SETS OF VIDEO DOOR PHONES TO 1 MAIN VIDEO OUTDOOR STATION
Each column is also connected to its own secondary outdoor station (Mod. Sinthesi or Mod. K-Steel)

SV102-3094D



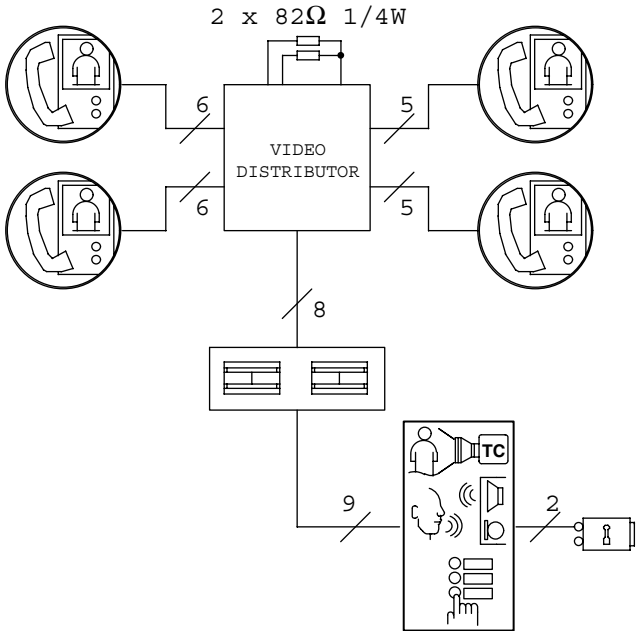
5 wires

CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION (Mod. Sinthesi or Mod. K-Steel) The video door unit calls the 4 video door phones in parallel with switch-on at the same time

urmet DOMUS

FUNCTION

This system allows the connection of a column of video door phones to 4 video outdoor stations with automatic switching. Therefore, it is suitable for a building with 4 entrances common to all apartments. When a visitor presses a call button on one of the two push button panels, in the called apartment the bitonal electronic call is sent to the corresponding video door phone loudspeaker and the image appears on the screen after about 7 seconds.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3166C:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/1**
N. X	Bracket	**Ref. 1202/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. 1 Module with camera and door unit **Ref. 1745/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

or

K-Steel model

N. 1 Module with camera and door unit **Ref. 1755/21**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “K-Steel modular vandal-proof panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. 1	Supplementary power supply	**Ref. 789/3**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

(see section 1)

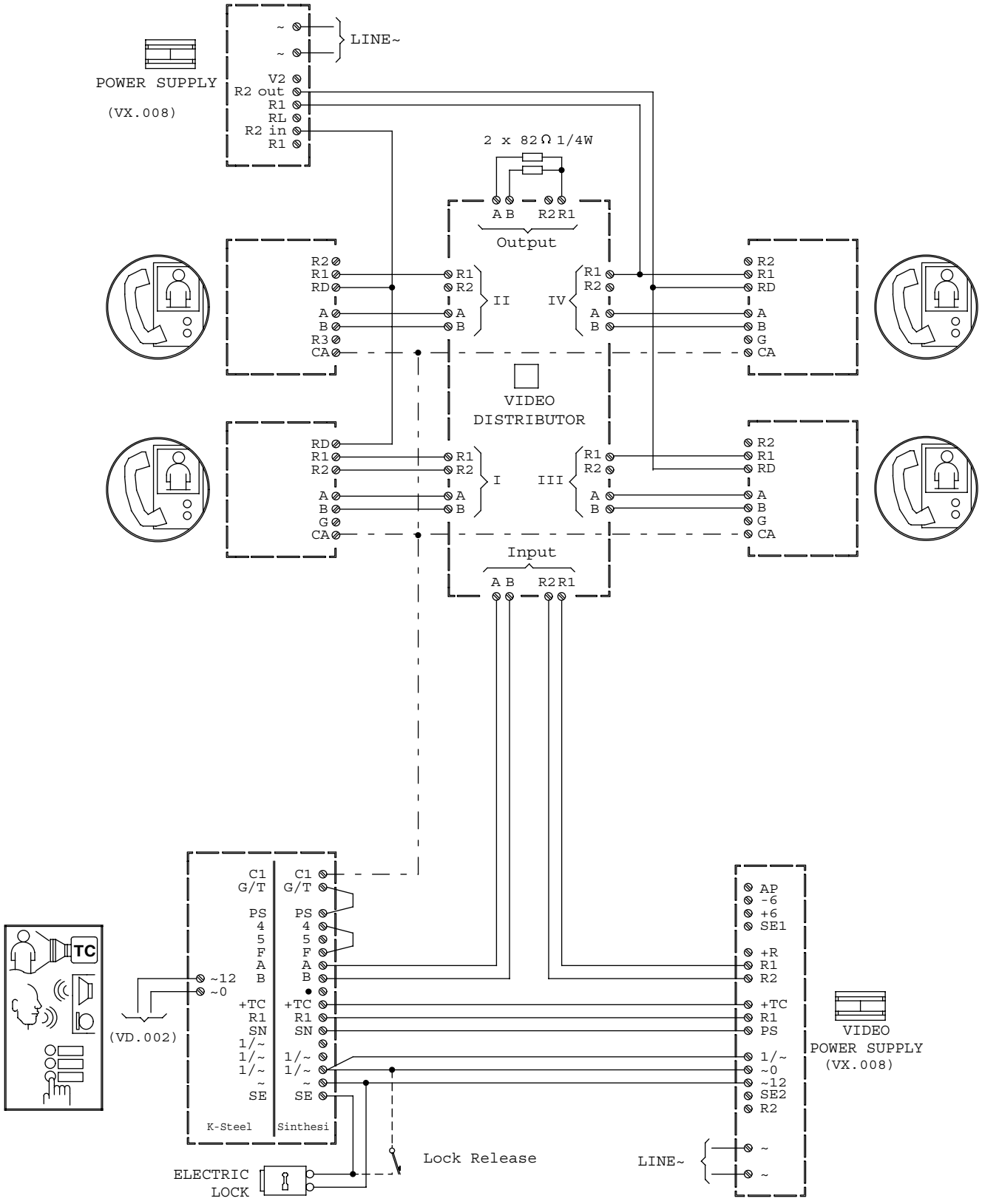
V5.001 VD.002 VX.008

urmet DOMUS

CONNECTION OF 4 VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION
(Mod. Sinthesi or Mod. K-Steel)
The video door unit calls the 4 video door phones in parallel with switch-on at the same time

5 wires

SV102-3166C



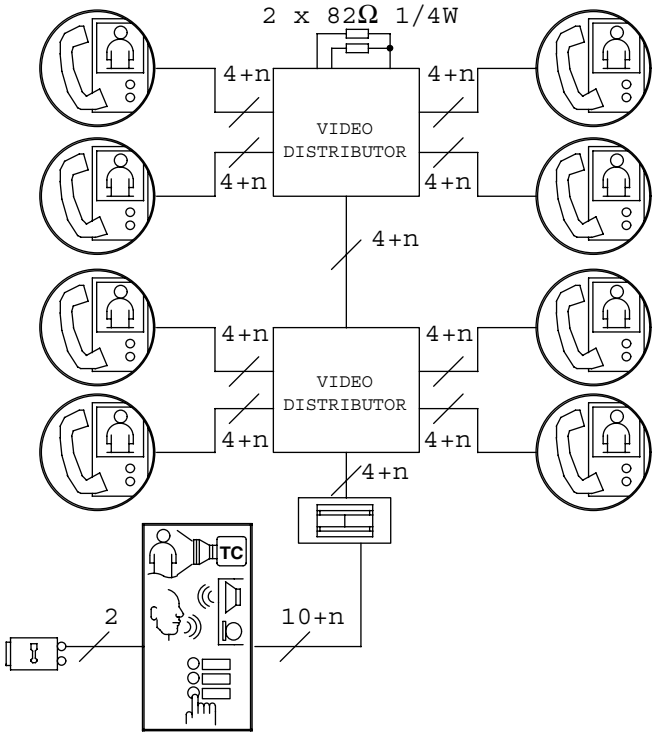
5 wires

CONNECTION OF SEVERAL COLOUR VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION (Mod. Sinthesi)

urmet DOMUS

FUNCTION

The 5-wire video door phone system implements conversation privacy, call and door opener functions in normal door phone systems with only 5 wires in the riser column: 4 commons + 1 single for each device.
The door unit is powered with only two wires and a transformer at 12V~.
The most interesting application of a 5-wire system is in old buildings where a door phone system is already fitted. The existing system can be transformed into a video door phone system without adding wires to the column or in the apartments.
Specific conversation privacy circuits must be fitted in the panel for ensuring conversation privacy for all video door phones in the system (one for each button). All video door phones are normally deactivated (no sound is heard when the handset is picked up); only the video door phone called from the door can start the conversation. No other users can cut into the call.
The voice circuit of the called video door phone remains activate until the following call is made from the panel to another device.
The door opening function is connected to conversation privacy; this means that a user must be called to be able to open the electrical lock.



EQUIPMENT

The following devices are needed for the system illustrated in diagram SV102-3122E:

VIDEO DOOR PHONE REFERENCES

Atlantico model

N. X	Video door phone	**Ref. 1702/40**
N. X	Bracket	**Ref. 1202/955**

or

Modello Utopia

N. X	Video door phone	**Ref. 1703/1**
N. X	Bracket	**Ref. 1703/955**

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model

N. X	Button modules	**Ref. 1145/11-/12-/13-/14**
N. 1	Module camera	**Ref. 1745/40**
N. 1	Video adapter	**Ref. 1742/13A**
N. 1	Module with door unit set-up	**Ref. 1145/20-/21**
N. 1	Amplified door unit	**Ref. 1145/67**
N. X/4	Conversation privacy device	**Ref. 1145/74**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to “Sinthesi panel” section of Doorphone and Videodoorphone system - product technical manual.

POWER SUPPLY REFERENCES

N. 1	Video power supply	**Ref. 789/5B**
N. X	Video distributor	**Ref. 955/40**

DIAGRAM NOTES

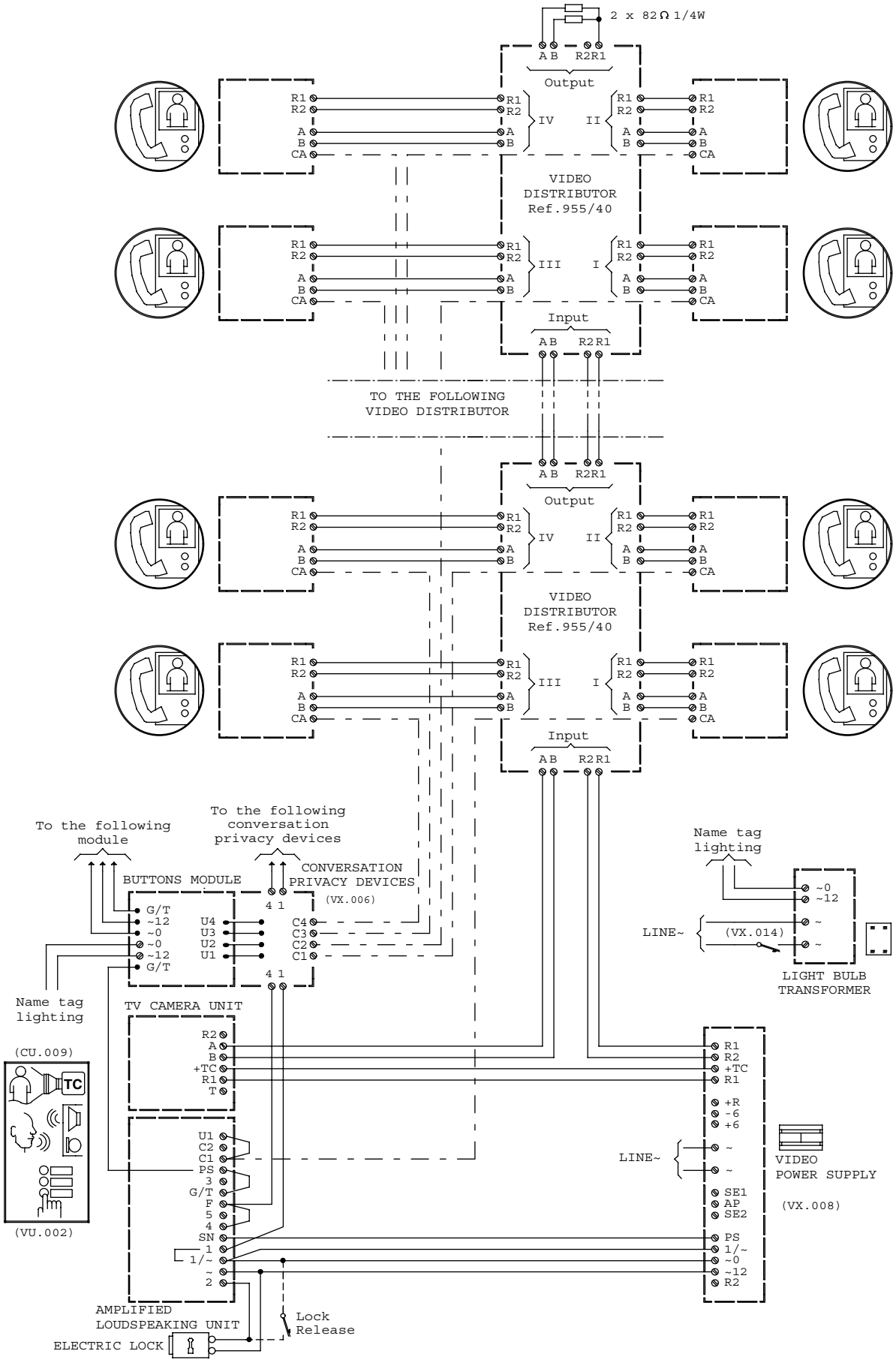
(see section 1)

CU.009 V5.001 VU.002 VX.006 VX.008 VX.014

CONNECTION OF SEVERAL COLOUR VIDEO DOOR PHONES TO 1 VIDEO OUTDOOR STATION (Mod. Sinthesi)

5 wires

SV102-3122E



5 wires

SV102-3239: CONNECTION OF 1 VIDEO DOOR PHONE AND 1 DOOR PHONE TO 1 RISING COLUMN. SINGLE CALLS

SV102-1710D: CONNECTION OF ONE DOOR PHONE IN PARALLEL TO 1 VIDEO DOOR PHONE

SV102-1712F: CONNECTION OF TWO VIDEO DOOR PHONES IN PARALLEL

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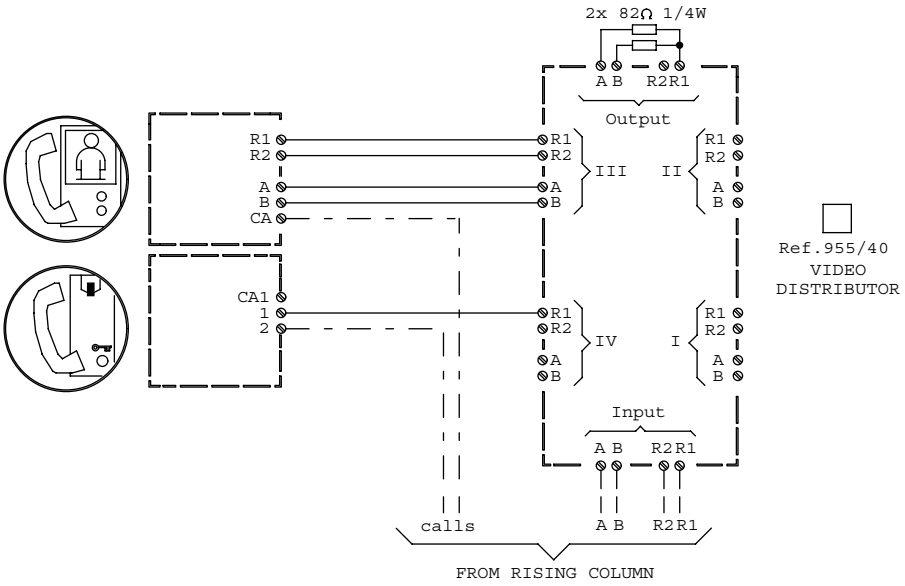
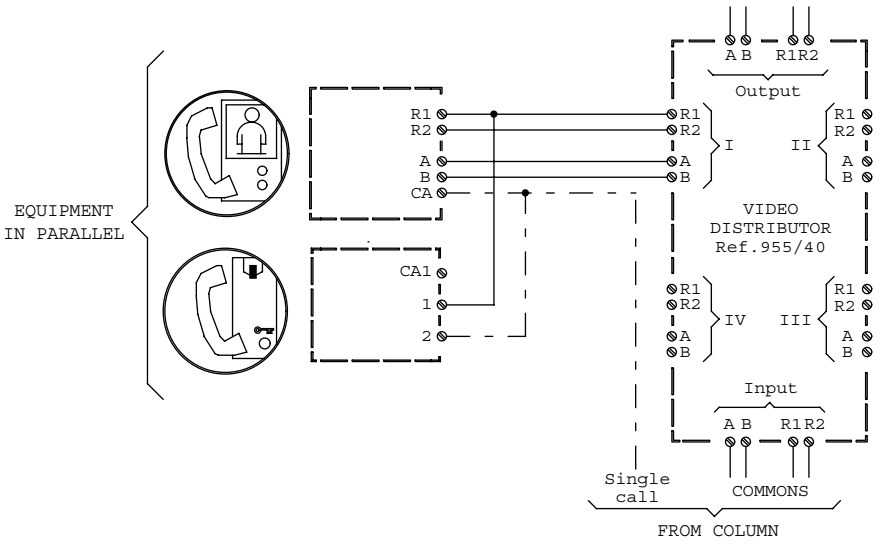
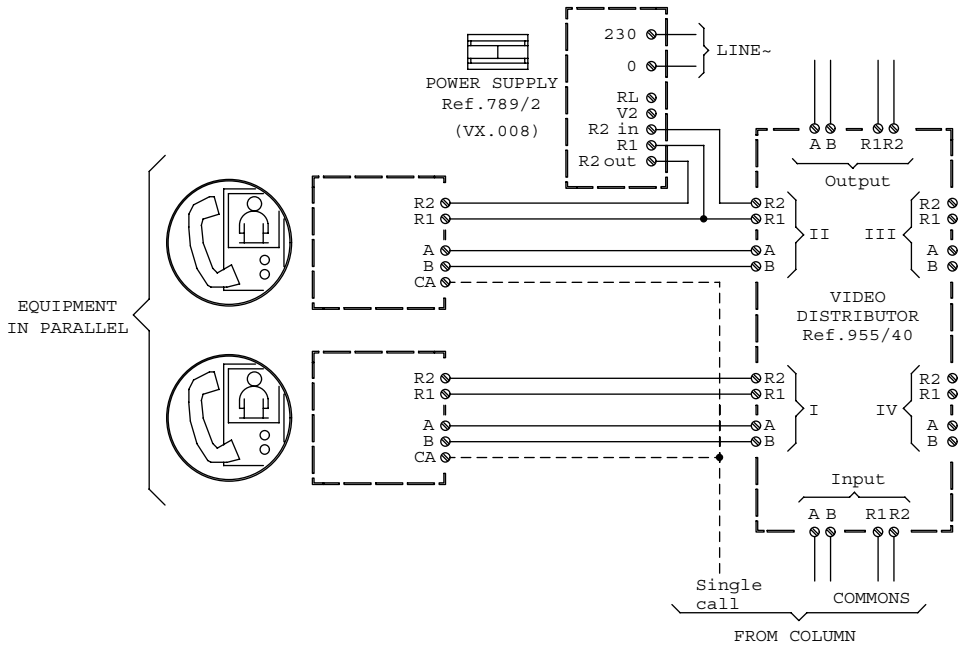
SV102-3239



SV102-1710D



SV102-1712F



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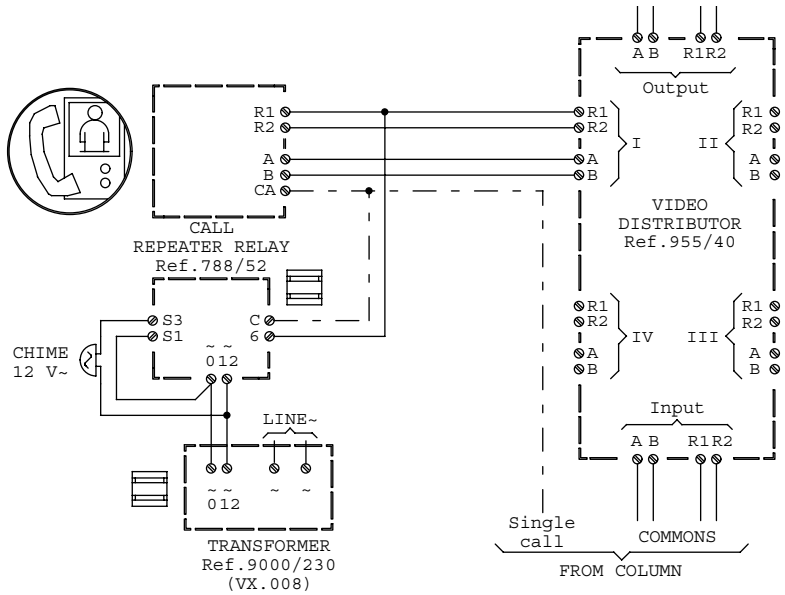
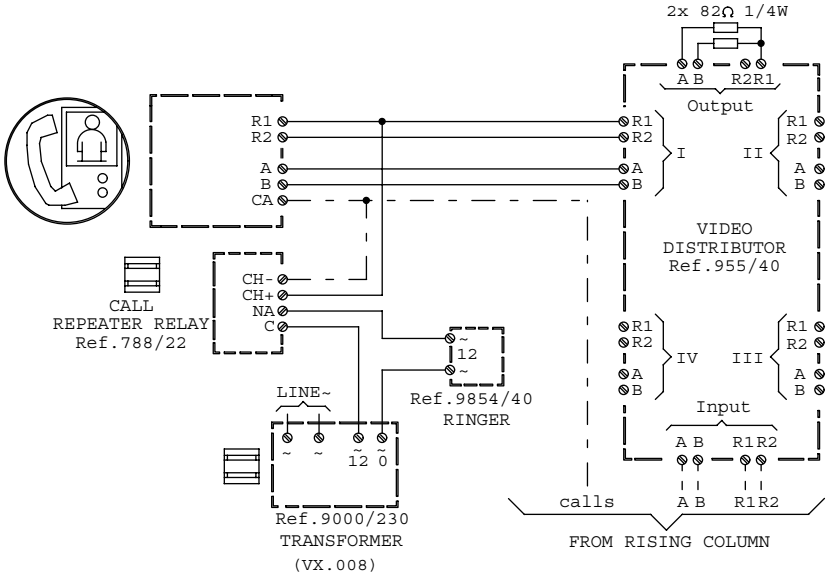
SV102-1470C: CONNECTION OF A CALL REPEATER RELAY Ref. 788/52 FOR OPERATING ADDITIONAL RINGER
SV102-3240: CONNECTION OF A CALL REPEATER RELAY Ref. 788/22 FOR OPERATING ADDITIONAL RINGER
SV102-3238: EXAMPLE OF CONNECTION FOR RELEASING DOOR LOCK DURING A CALL BY THE VIDEO DOOR PHONE

5 wires

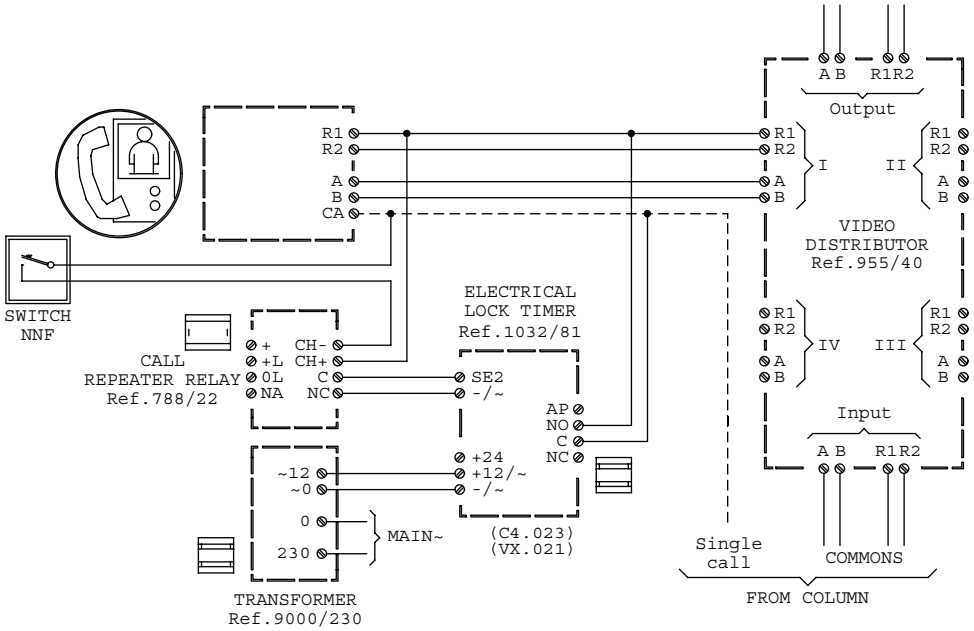
SV102-1470C



SV102-3240



SV102-3238



5 wires

EXAMPLE OF SIGNAL A, SIGNAL B AND POWER (R1, R2) DISTRIBUTION ON SEVERAL COLUMNS

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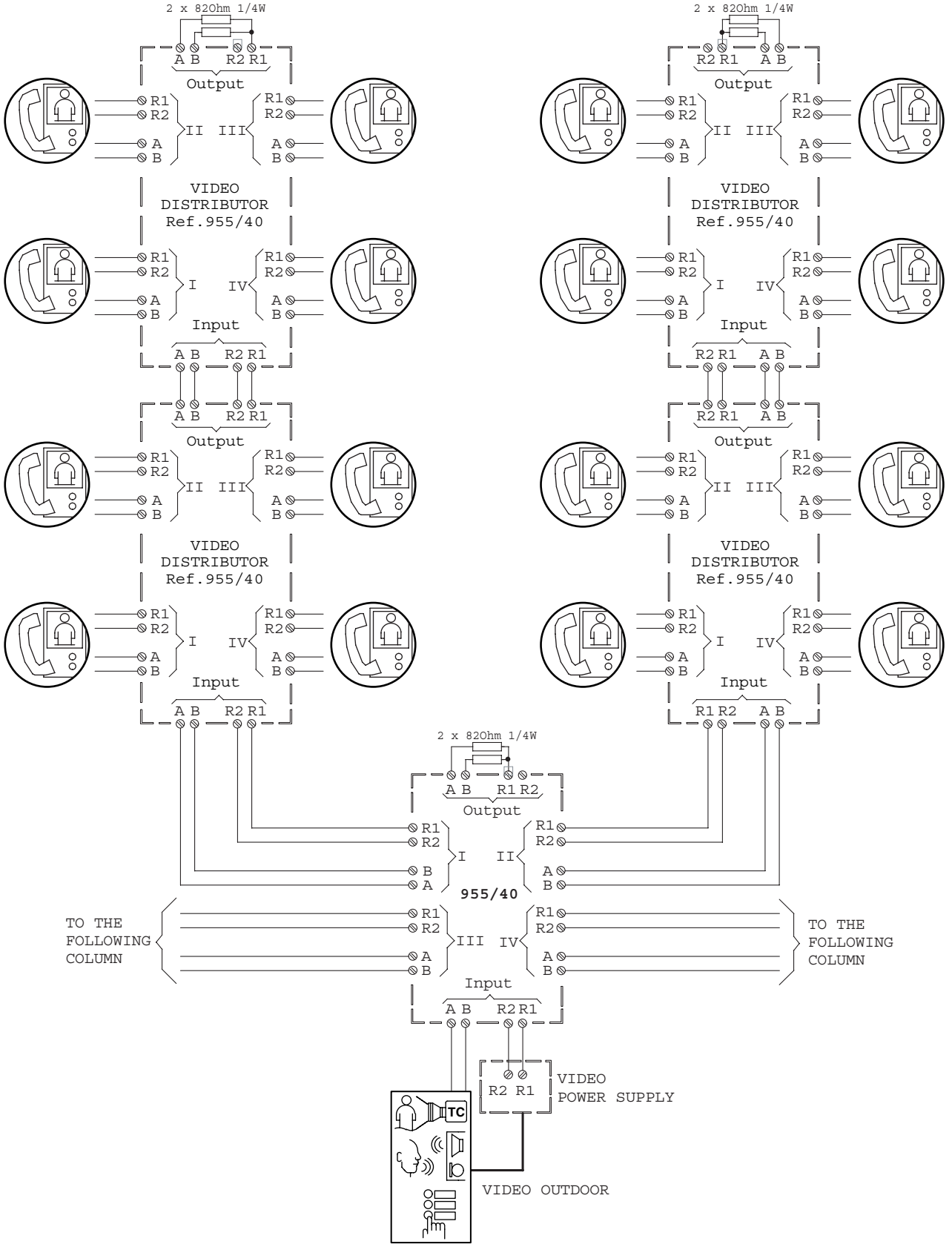
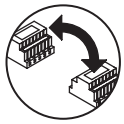
SV102-2978C

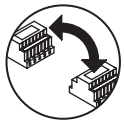


The video power unit Ref. 789/5B can power up to 8 video distributors Ref. 955/40 if Atlantico, or Scaitel monitors are not installed in parallel in the system.
The closing resistors must not be present on the video door phone brackets.



INSTRUCTIONS FOR URMET DOMUS DEVICE INTERCHANGEABILITY

Download from:
www.urmetdomus.com
Technical Manuals area



INTERCHANGEABLE DEVICES

Some devices replace previous models and may be used as spare parts.
The correspondence between versions is:

	PREVIOUS MODEL	NEW MODEL	SEE PAGE
POWER UNITS	786/1	786/11	23
	786/5A	786/15	4
	786/14	786/11 or 786/12 (*)	23
	787/4	786/4	7
	789	789/1A	6
	789	789/5B	6
	789/1A	789/5B	6
	1840/22	1090/850	7
	4340/20	752/20	8
	7073	789/1A	9
	7073/1	789/1A	9
	7073/2	789/1A	9
	7073/5A	789/2	16
	9006/1	786/11	12
	9006/2	786/11	12
	9006/3	786/3A	14
	9006/5	786/15	5
	9006/14	786/11 or 786/12 (*)	12
	9006/22	786/11 or 786/12 (*)	12
	9008/14	786/38A	14
RELAY DEVICES	788/1	788/51	16
	788/5	788/52	17
	788/4	788/54	19
	788/8	788/58	18
	788/11	788/52	15
	788/21	788/52	15
	788/30	788/52	17
	4330/31	788/51	16
	4340/11	788/52	15
	4520/10	788/52	15
	9330 (II series)	788/52	17
	9332/1	788/51	16
	9332/5	788/52	17
	9332/8	788/58	18
TRANSFORMERS	9000/20	9000/230 or 9000/110 (*)	18
APARTMENT STATIONS	1201/1 Ranger	1702/1 Atlantico	20
	1201/10	1702/1 Atlantico	20
	1704/1 Sentry	1705/1 Artico	22
	1704/1A Sentry+	1705/1 Artico	22
	1704/10 Sentry	1705/1 Artico	22
	1704/10A Sentry+	1705/1 Artico	22
	1704/90	1704/102	22
	1704/955	1704/102	22
	4340/23	752/23	8
	7081/1 Vedette	1704/20 Sentry+	20
	7091/1 Sentinel	1704/20 Sentry+	20
	7101/1 Explorer	1704/20 Sentry+	20
DOOR UNITS	5150/500	1128/500	14

(*) Not available in Italy.

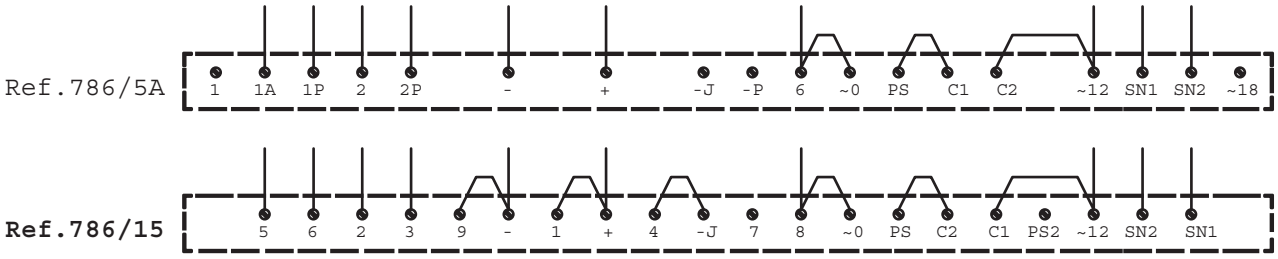
REPLACING RELAY POWER UNIT Ref. 786/5A AND Ref. 9006/5 WITH Ref. 786/15

The 786/15 relay power unit can replace the following obsolete models:
- Ref. 9006/5
- Ref. 786/38A

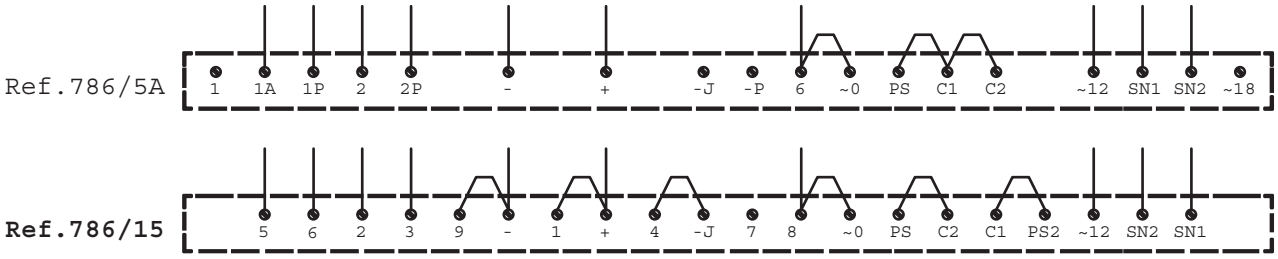
Follow the following diagrams according to the type of system in which the power unit is being replaced for correct connection.

ELECTRONIC CALL INTERCOM SYSTEMS AND DOOR UNIT

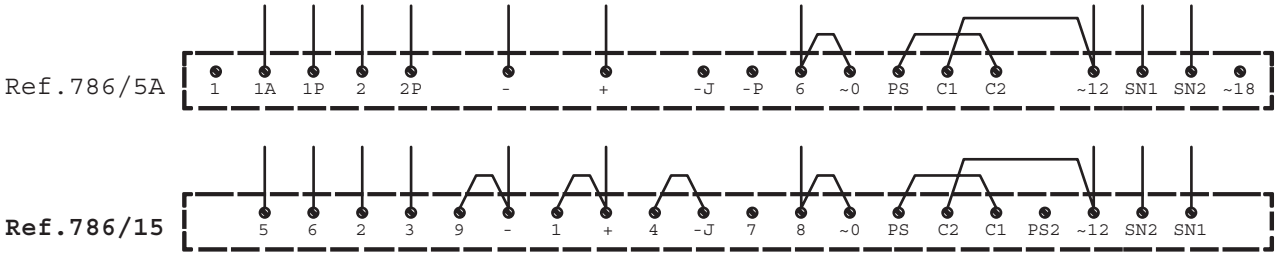
With single calls from door unit and door phones with buzzer (differential call)



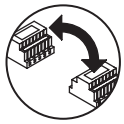
With single calls from door unit and door phones without buzzer.



With single call from door unit and door phones with buzzer.

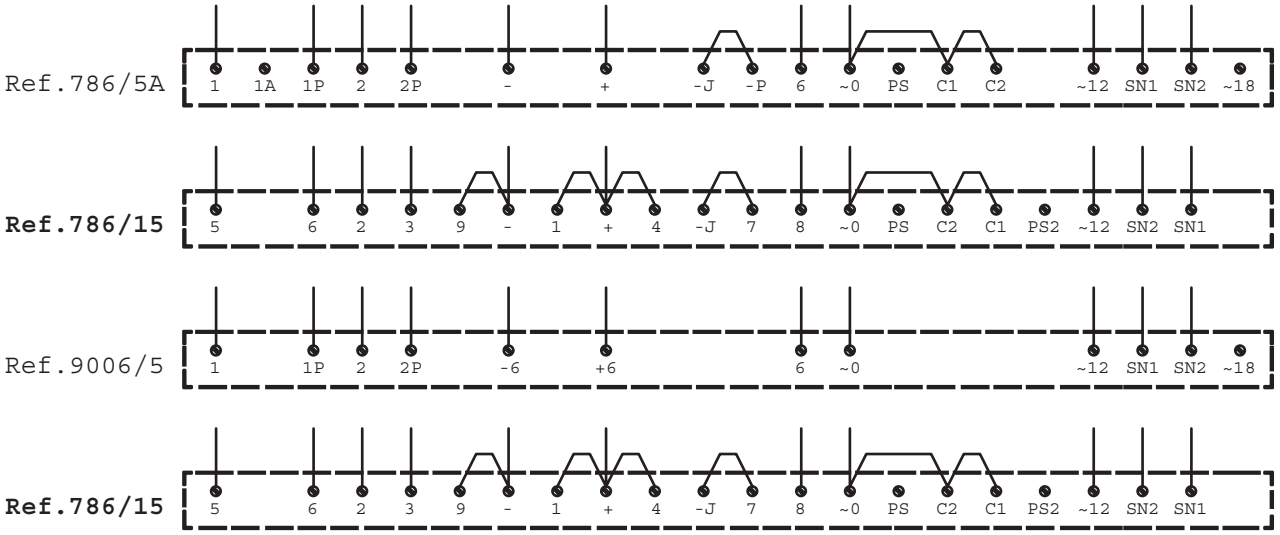


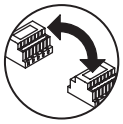
REPLACING RELAY POWER UNIT Ref. 786/5A AND Ref. 9006/5 WITH Ref. 786/15



TRADITIONAL CALL INTERCOM SYSTEMS AND DOOR UNIT

With single calls from door unit and door phones with buzzer.





REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 789 WITH Ref. 789/1A

REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 789 AND Ref. 789/1A WITH Ref. 789/5B

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REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 789 WITH Ref. 789/1A

The 789/1A power unit can replace the obsolete 789 model.
The terminals correspond as follows:

	Ref. 789	Ref. 789/1A
POWER	0	0
	-	110
	230	230
OUTPUTS	~0	~0
	~12	~12
	~A	~A
	~B	~B
	+6	+6
	-6	-6
	PS	PS
	SN	SN
	1/~	1/~
	R1	R1
	R2	R2
	+TC	+TC
	AP	AP
	SE1	SE1
	SE2	SE2
	+6J	+6J
	-J	-J

REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 789 AND Ref. 789/1A WITH Ref. 789/5B

The 789/5B video power unit has the following characteristics:

1) It must be powered at 230 V exclusively.

2) It can only be used in video door phone systems with electronic call system (it only has a PS output, no SN output).

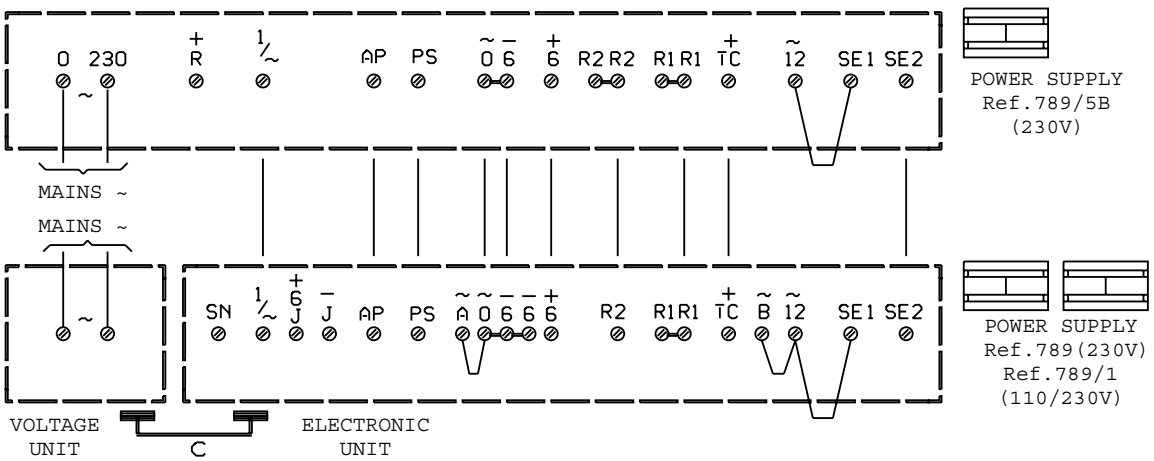
3) It can power only two video door phones in stand-by mode (V2).

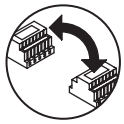
4) It can power up to 10 video distributors.

5) It is not provided with a -J output for intercom service.

It can therefore replace the **Ref. 789 and Ref. 789/1A** power units only in systems with the characteristics and limitations above.
In these cases, the terminals correspond as follows:

SV102-1814B





REPLACING DOOR PHONE POWER UNIT Ref. 1840/22 WITH Ref. 1090/850

The 1090/850 power unit can replace the obsolete 1840/22 model.
The terminals correspond as follows:

	Ref. 1840/22	Ref. 1090/850	Notes
POWER	0	0	-
	~230	~230	-
OUTPUTS	~24	Not available	(#)
	~24	Not available	(#)
	+ (12)	Vout	
	- (12)	GND	-
	-	P1	Remove the jumper between terminals P1 and P2 (*)
	-	P2	

(#) If a 24Vac output is needed, use a transformer with minimum output current of 0.2 Aac
(∗) because the device 1840/22 actually outputs approximate 14.3 Vdc

REPLACING DOOR PHONE POWER UNIT Ref. 787/4 WITH Ref. 786/4

The Ref. 786/4 power unit can replace the obsolete Ref. 787/4 model.
The terminals correspond as follows:

	Ref. 787/4	Ref. 786/4
POWER	0	0
	110	110
	230	230
OUTPUTS	~0	~0
	~12	~12
	+6	+6
	-6	-6
	-J	-J
	PS	PS
	PS1	PS1
	1/~	1/~
	SN	SN
	NA	NA
	NC	NC
	C	C

REPLACING DOOR PHONE TWO-CHANNEL SYSTEM POWER UNIT Ref. 4340/20 WITH Ref. 752/20

REPLACING TWO-CHANNEL SYSTEM DOOR PHONE APARTMENT STATION Ref. 4340/23 WITH Ref. 752/23

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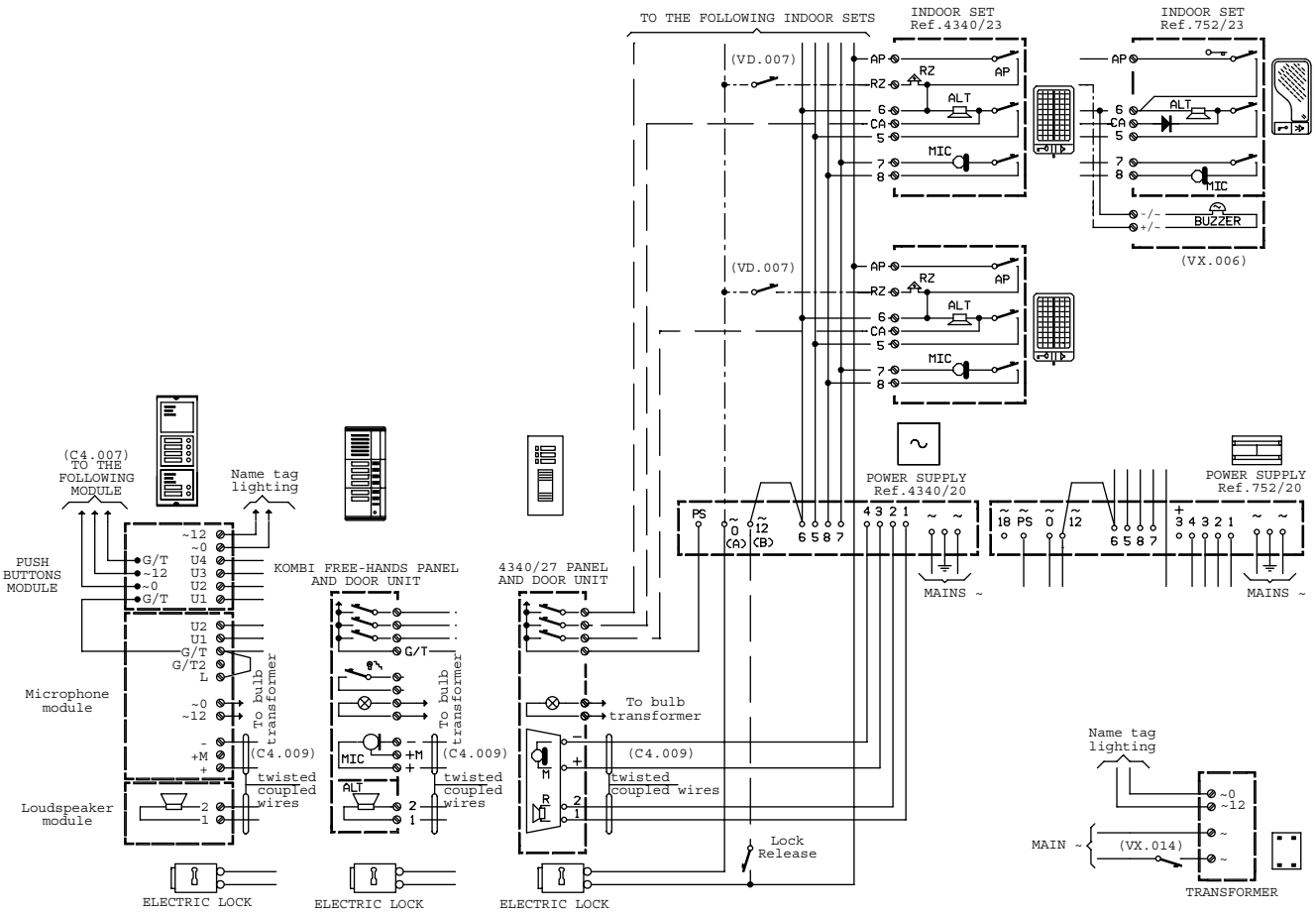
REPLACING DOOR PHONE TWO-CHANNEL SYSTEM POWER UNIT Ref. 4340/20 WITH Ref. 752/20

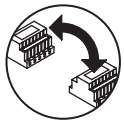
REPLACING TWO-CHANNEL SYSTEM DOOR PHONE APARTMENT STATION Ref. 4340/23 WITH Ref. 752/23

The Ref. 752/20 power unit can replace the obsolete Ref. 4340/20 model.
The Ref. 752/23 two-channel door phone apartment station replaces the Ref. 4340/23 model.
The correspondence between device terminals is shown in the following diagram.

SC101-0211B



C4.007 - Sinthesi models only: See instruction booklet provided with product for connecting terminals G/T, ~0 and ~12 between modules.
C4.009 - IMPORTANT Use cord pairs.
VD.007 = Floor call button.
VX.006 - See the instruction book provided with the product for fitting the accessory in the device.
VX.014 - Dusk switch or similar device for switching lights on, where relevant.



REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 7073, Ref. 7073/1 AND Ref. 7073/2 WITH Ref. 789/1A

The Ref. 789/1 A power unit replace the previous **Ref. 7073, Ref. 7073/1 and Ref. 7073/2** power units in all systems except for:

1) Systems with Vidicon camera: Mod. 789 power units are not provided with + LA, -LA outputs for powering lamps.

2) Continuously powered systems.

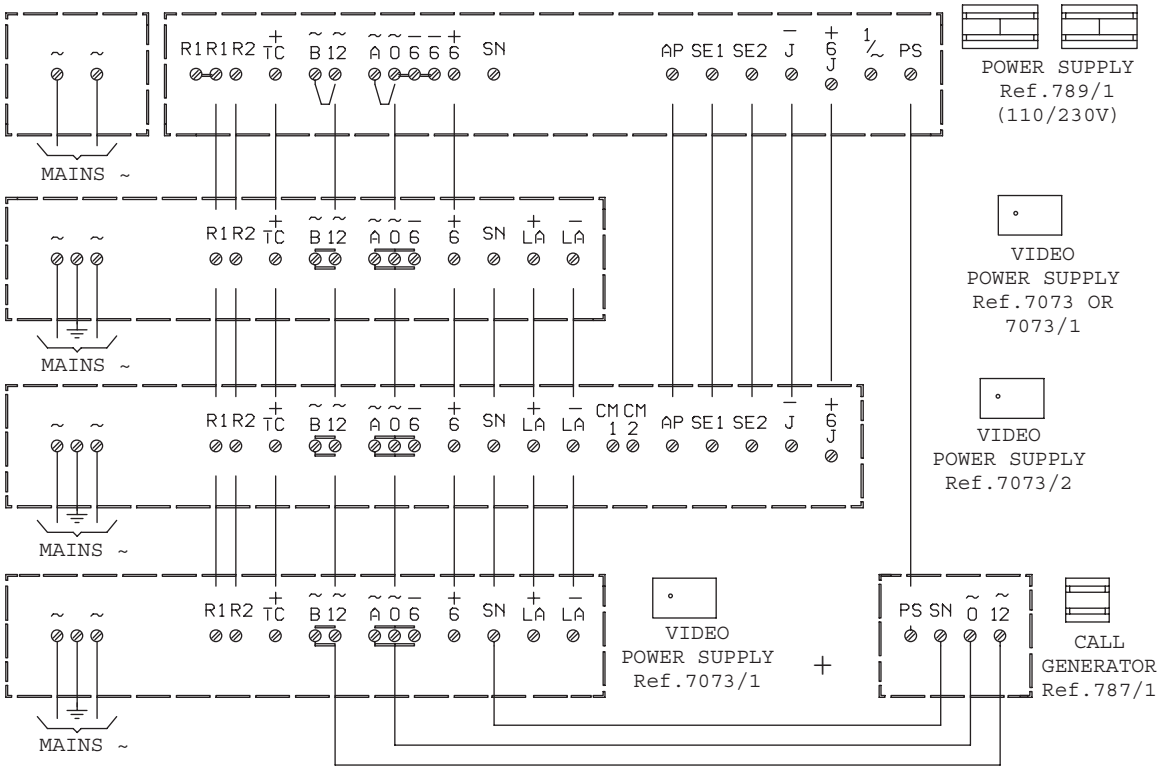
3) Systems with more than 20 video door phones monitors in stand-by: in this case use a 6 Vdc power unit providing suitable output current considering that the average consumption of a video door phone in stand-by is 60 mAcc.

4) Systems with simultaneous operation of 2 or more video door phones: in this case, power each supplementary video door phone using local power unit Ref. 789/2.

5) The Ref. 789/1 video power unit (110-230V) consists of two units connected using the specific wire and plugs (C).

The power unit Ref. is 789/101 (110-230V).
The electronic unit Ref. is 789/102.

Jumpers ~0, ~A and ~12, ~B are pre-fitted.

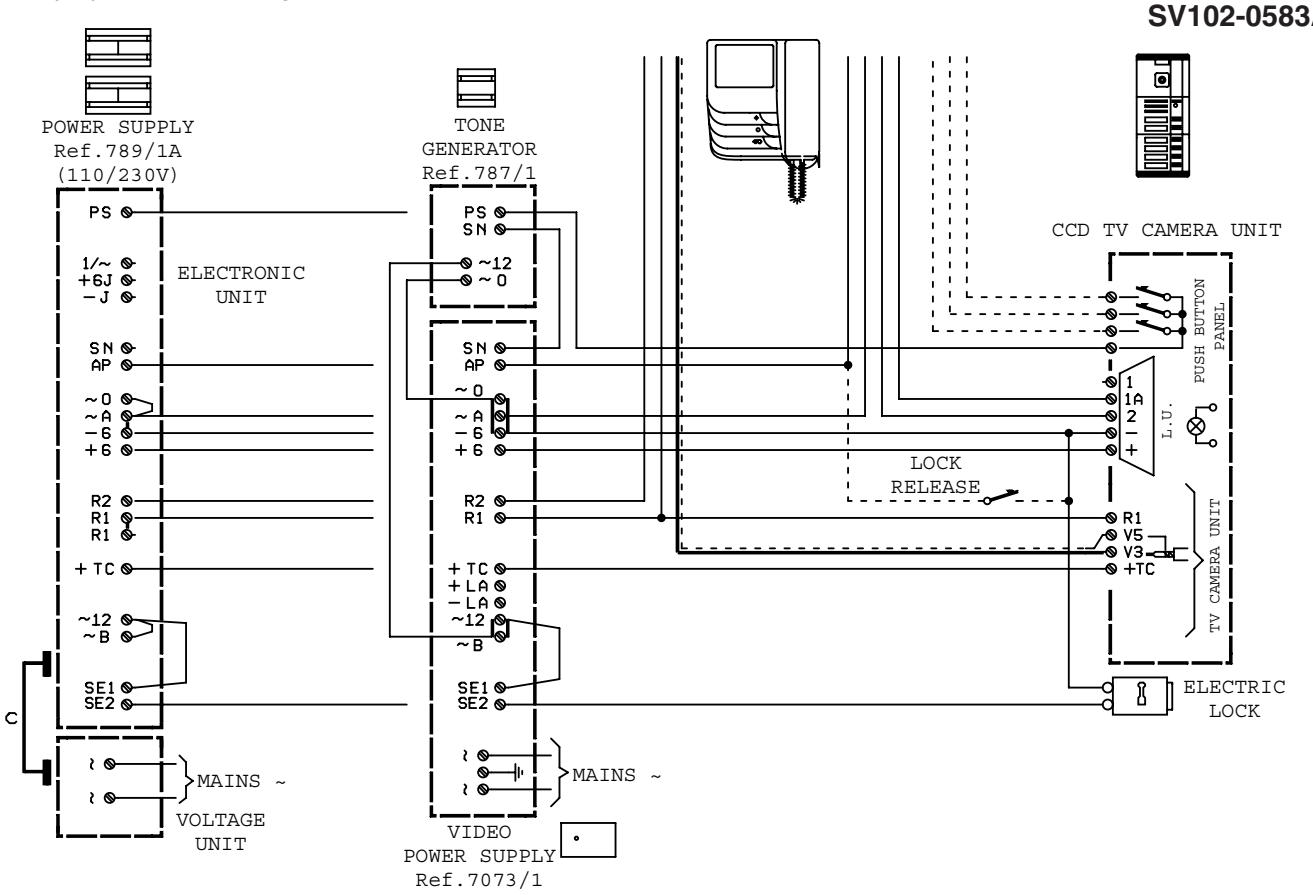


REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 7073, Ref. 7073/1 AND Ref. 7073/2 WITH Ref. 789/1A

SCOUT AND CAMERA SYSTEMS (CCD CAMERA ONLY)

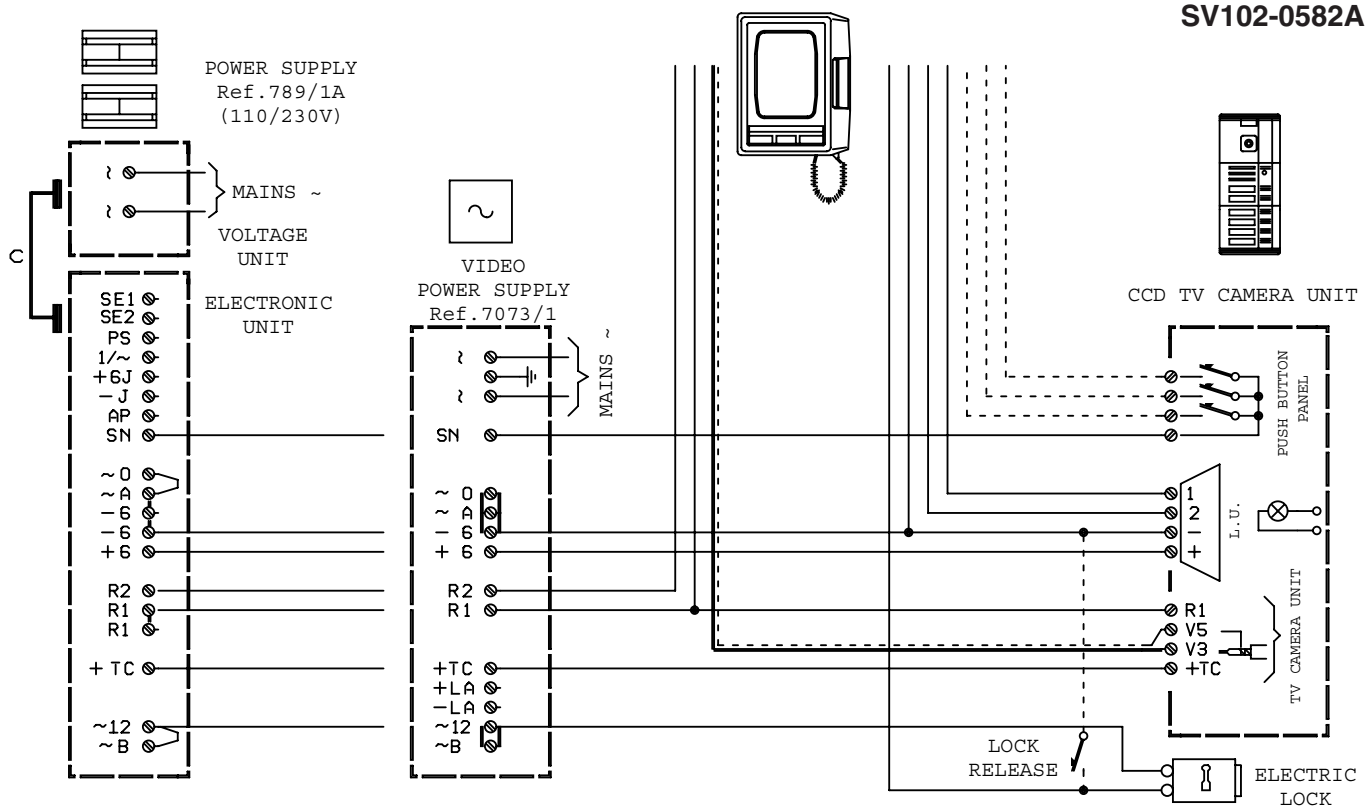
The Ref. 787/1 tone generator is not used because it is replaced by a generator inside the Ref. 789/1 A power unit.
Connect jumpers SE1, ~12 during installation.

SV102-0583A



SENTINEL, EXPLORER AND RANGER AND CAMERA SYSTEMS (CCD CAMERA ONLY)

SV102-0582A

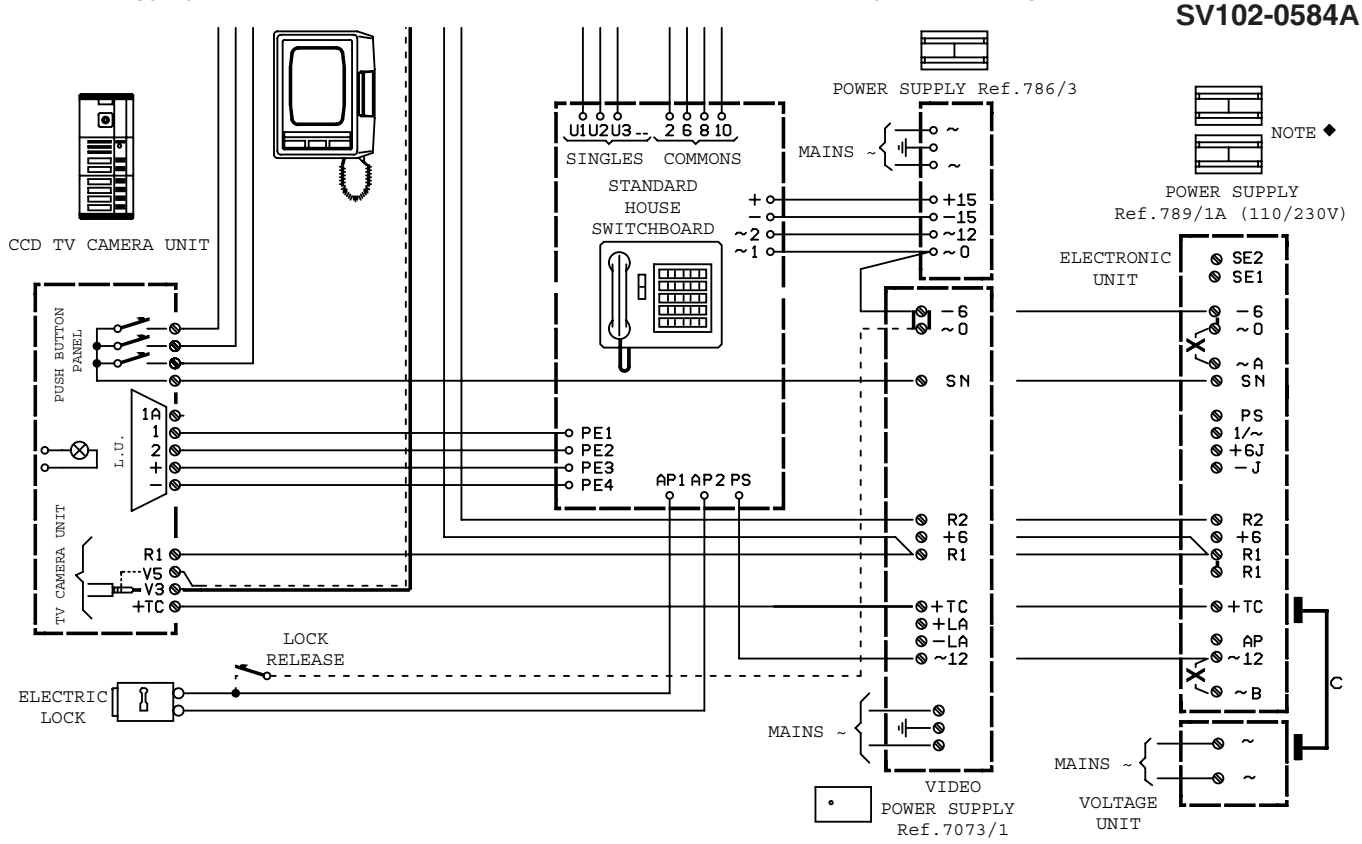


REPLACING VIDEO DOOR PHONE POWER UNIT Ref. 7073, Ref. 7073/1 AND Ref. 7073/2 WITH Ref. 789/1A

SENTINEL, EXPLORER AND RANGER WITH SWITCHBOARD AND CAMERA SYSTEMS (CCD CAMERA ONLY)

Cut the existing jumpers between terminals ~ A, ~0 and between ~B, ~12 of the Ref. 789/1A power unit during installation.

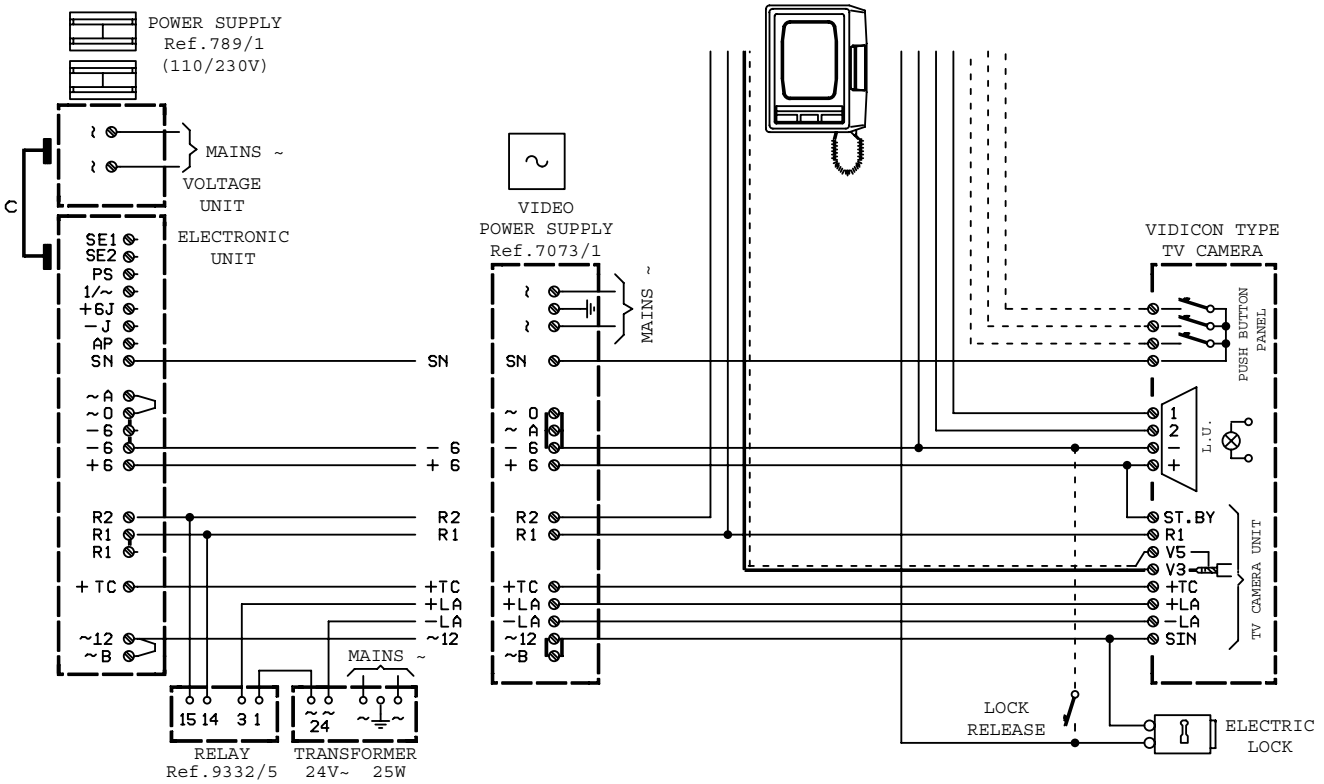
SV102-0584A

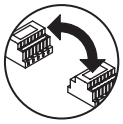


SENTINEL, EXPLORER AND RANGER AND CAMERA SYSTEMS (VIDICON CAMERA)

The Ref. 789/1A power unit is not provided with +LA and -LA outputs. An auxiliary ~24 V transformer, minimum 24 W (not included), and Ref. 788/5 control relay is needed to power the lights.

SV102-0655A





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REPLACING DOOR PHONE POWER UNITS Ref. 9006/1, 9006/2, 9006/14 AND 9006/22 WITH Ref. 786/11

The Ref. 786/11 power unit can replace the following obsolete models:
- Ref. 9006/1
- Ref. 9006/2
- Ref. 9006/14
- Ref. 9006/22

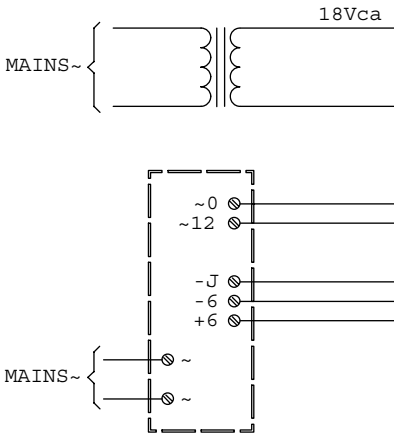
The terminals correspond as follows:

	Ref. 9006/1	Ref. 786/11
POWER	~0	0
	~220	~230
OUTPUTS	~0	~0
	~12	~12
	+6	+6
	-6	-6
	-J	-J

	Ref. 9006/2	Ref. 786/11
POWER	~0	0
	~220	~230
OUTPUTS	~0	~0
	~12	~12
	+6	+6
	-6	-6

	Ref. 9006/14	Ref. 786/11	Ref. 786/12 (*)	Notes
POWER	~0	0	0	
	~110	Not available	~110	
	~220	~230	Not available	
	~240	Not available	Not available	
OUTPUTS	~0	~0	~0	
	~12	~12	~12	
	~18	Not available	Not available	(#)
	+6	+6	+6	
	-6	-6	-6	
	-J	-J	-J	

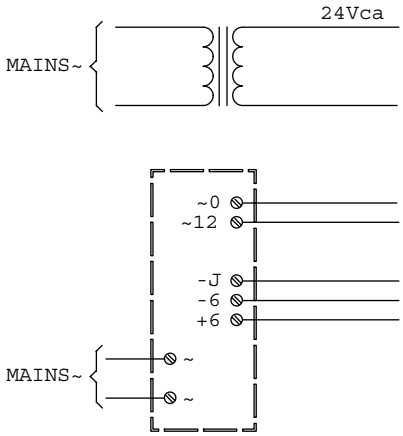
(*) Not available in Italy.
(#) If a 18Vac output is needed, use a transformer with minimum output current of 0.5 Aac and connect as shown in the attached diagram:

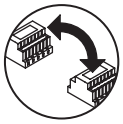


REPLACING DOOR PHONE POWER UNITS Ref. 9006/1, 9006/2, 9006/14 AND 9006/22 WITH Ref. 786/11

	Ref. 9006/22	Ref. 786/11	Ref. 786/12 (*)	Notes
POWER	~0	0	0	
	~110	Not available	~110	
	~220	~230	Not available	
	~240	Not available	Not available	
OUTPUTS	~0	~0	~0	
	~12	~12	~12	
	~24	Not available	Not available	(#)
	+6	+6	+6	
	-6	-6	-6	
	-J	-J	-J	

(*) Not available in Italy.
(#) If a 24Vac output is needed, use a transformer with minimum output current of 0.5 Aac and connect as shown in the attached diagram:





REPLACING SWITCHBOARD SYSTEM POWER UNIT Ref. 9006/3 WITH Ref. 786/3A

The Ref. 786/3A power unit can replace the obsolete 9006/3 model.
The terminals correspond as follows:

	Ref. 9006/3	Ref. 786/3
POWER	~0	0
	~110	Not available
	~220	~230
	~240	Not available
OUTPUTS	~0	~0
	~12	~12
	-15	-15
	+15	+15

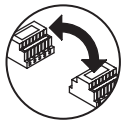
REPLACING DOOR PHONE POWER UNIT Ref. 9008/14 WITH Ref. 786/38A

The Ref. 786/38A power unit can replace the obsolete 9008/14 model.
The terminals correspond as follows:

	Ref. 9008/14	Ref. 786/38A
POWER	~0	0
	~110	~110
	~220	~230
	~240	Not available
OUTPUTS	~0	~0
	~12	~12
	~18	~18
	+6	+6
	-6	-6
	-J	-J

REPLACING DOOR UNIT Ref. 5150/500 WITH Ref. 1128/500

Ref. 5150/500	Ref. 1128/500
+	+
-	-
1	1
1A	1A
2	2



REPLACING RELAY BOXES Ref. 788/21, Ref. 788/11, Ref. 4340/11 AND Ref. 4520/10 WITH Ref. 788/52

The 788/52 relay box can replace the following obsolete models:
- Ref. 788/11
- Ref. 788/21
- Ref. 4340/11
- Ref. 4520/10

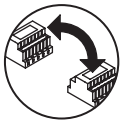
The terminals correspond as follows:

Ref. 788/21	Ref. 788/52
~12 (R1-1)	12~
C	C
CA	CA
0~	0~
6	6
2-7	2
S1	S1
S2	S2
S3	S3
S4	S4
S5	S5
S6	S6

Ref. 788/11	Ref. 788/52
~12 - R1 - 1	12~
2 - 7	2
~0	0~
CA	CA
C	C
6	6
S1	S1
S2 - S3	S3

Ref. 4340/11	Ref. 788/52
~12	12~
~0	0~
CA	CA
6	6
S1	S1
S3	S3

Ref. 4520/10	Ref. 788/52
R1	15
7	2
2	2
1	15
S1	S1
S2	S3



REPLACING RELAY BOXES Ref. 9332/1, Ref. 4330/31 AND Ref. 788/1 WITH Ref. 788/1

The Ref. 788/51 relay box can replace the obsolete 9332/1 model.
The terminals correspond as follows:

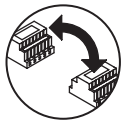
Ref. 4330/31	Ref. 9332/1	Ref. 788/1	Ref. 788/51
2P	1	1	1
2	2	2	2
2S	3	3	3
4P	4	4	4
4	5	5	5
4S	6	6	6
AP/P	7	7	7
AP	8	8	8
AP/S	9	9	9
3P	10	10	10
3	11	11	11
3S	12	12	12
.	13	13	13
.	14	14	14
.	15	15	15
PUL/P	SN1	SN1	SN1
PUL/P	SN2	SN2	SN2
♦ A	♦ SN	C1	C1
		C2	C2
		~12	~12
B	*	~0	~0

Note ◆: Terminals C1, C2, ~12 of relay Ref. 788/51 must be connected together by jumpers and connected to ~12.
Note *: Terminal not present in Ref. 9332/1 and Ref. 788/51. Add power wire ~0.

REPLACING SUPPLEMENTARY VIDEO DOOR PHONE POWER UNIT Ref. 7073/5A WITH Ref. 789/2

The Ref. 789/2 power unit can replace the obsolete Ref. 7073/5 model.
The terminals correspond as follows:

	Ref. 7073/5	Ref. 789/2
POWER	0	0
	~110	Not available
	~230	~230
OUTPUTS	R2 in	R2 in
	R2 out	R2 out
	RL	RL
	R1	R1
	V2	V2



REPLACING RELAY BOX Ref. 9332/5 AND Ref. 788/5 WITH Ref. 788/52

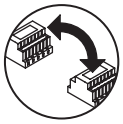
The Ref. 788/52 relay box can replace the obsolete 9332/5 and 788/5 model.
The terminals correspond as follows:

	Ref. 9332/5	Ref. 788/5	Ref. 788/52
RELAY	14	14	14
	15	15	15
CONTACTS	1	1	S1
	2	2	S2
	3	3	S3
	4	4	S4
	5	5	S5
	6	6	S6

REPLACING RELAY BOX Ref. 9330 (II SERIES) AND Ref. 788/30 WITH Ref. 788/52

The Ref. 788/52 relay box can replace the obsolete 9330 II series model (which is not provided with a 150 ohm resistor in series with terminal 12) and 788/30 model.
The terminals correspond as follows:

	Ref. 9330 (II series)	Ref. 788/30	Ref. 788/52
RELAY	14	14	14
	15	15	15
CONTACTS	1	1	S1
	2	2	S2
	3	3	S3
	4	4	S4
	5	5	S5
	6	6	S6
	7	7	-
	8	8	-
	9	9	-
	10	10	-
	11	11	-
	12	12	-



REPLACING RELAY BOX Ref. 9332/8 AND Ref. 788/8 WITH Ref. 788/58

The Ref. 788/58 relay box can replace the obsolete 9332/8 and 788/8 model.
The terminals correspond as follows:

Ref. 9332/8	Ref. 788/8	Ref. 788/58
1	1	1
2	2	2
-	-	-
AP	AP	AP
1^{I}	1^{I}	1^{I}
2^{I}	2^{I}	2^{I}
$-^{I}$	$-^{I}$	$-^{I}$
AP^{I}	AP^{I}	AP^{I}
1^{II}	1^{II}	1^{II}
2^{II}	2^{II}	2^{II}
$-^{II}$	$-^{II}$	$-^{II}$
AP^{II}	AP^{II}	AP^{II}
1^{III}	1^{III}	1^{III}
2^{III}	2^{III}	2^{III}
$-^{III}$	$-^{III}$	$-^{III}$
AP^{III}	AP^{III}	AP^{III}
1^{IV}	1^{IV}	1^{IV}
2^{IV}	2^{IV}	2^{IV}
$-^{IV}$	$-^{IV}$	$-^{IV}$
AP^{IV}	AP^{IV}	AP^{IV}
SN1	SN1	SN1
SN2	SN2	SN2
SN3	SN3	SN3
SN4	SN4	SN4
A	~0	~0
B ♦	~12	~12
	C1	C1
	C2	C2

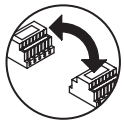
Note ♦: Terminals C1, C2, ~12 of relay Ref. 788/58 must be connected together by jumpers and connected to ~12.

REPLACING 12VAC TRANSFORMER Ref. 9000/20 WITH Ref. 9000/230

The 9000/230 transformer can replace the obsolete 9000/20 model.
The terminals correspond as follows:

	Ref. 9000/20	Ref. 9000/230	Ref. 9000/110 (*)
POWER	~0	0	0
	~110	Not available	~110
	~220	~230	Not available
	~240	Not available	Not available
OUTPUTS	~0	~0	~0
	~12	~12	~12

(*) Not available in Italy.



REPLACING RELAY BOX Ref. 788/4 WITH Ref. 788/54

The Ref. 788/54 relay box can replace the obsolete 788/4 model.
The terminals correspond as follows:

	Ref. 788/4	Ref. 788/54
POWER	GND	GND
	IN H	IN H
	~B	~B
	~A	~A
	+TC	+TC
	R2	R2
	R1	R1
COLUMN	9	9
	6	6
	R2	R2
	R1	R1
	V5	V5
	V3	V3
	2	2
	1	1
INPUT (A, B, C, D)	+6	+6
	-6	-6
	+TC	+TC
	R1	R1
	V5	V5
	V3	V3
	2	2
	1	1
	SE	SE
	~0	~0
	~12	~12
	C1	C1
	SN1	SN1
	C2	C2
	SN2	SN2
	C3	C3
	SN3	SN3
	C4	C4
	SN4	SN4
POWER	~12	~12
	~0	~0
	+6	+6
	-6	-6
	AP	AP
	SE	SE

REPLACEMENT OPTIONS FOR RANGER, EXPLORER, VEDETTE AND SENTINEL IN TRADITIONAL CALL SYSTEM VIDEO DOOR PHONES SYSTEMS

RANGER VIDEO DOOR PHONES

WINFLAT+ BRACKET Ref. 1202/590 FOR ADAPTING COAX VIDEO DOOR PHONE SYSTEMS

Ranger video door phones Ref. 1201/1 (and respective brackets Ref. 1201/90) can be replaced in traditional call video door phone systems with Atlantico video door phones Ref. 1702/1 and specific bracket Ref. 1202/590.
The terminals on Ref. 1202/590 brackets have the same numbers as the Ref. 1201/90 brackets to replace simply by connecting the wires in the same way.
Note that the replacement is only possible in systems fitting Ranger basic model Ref. 1201/1 with bracket Ref. 1201/90. It is not possible in systems with switchboard, special systems and intercom systems because bracket Ref. 1202/590 is not suitable for replacing special brackets Ref. 1201/91, Ref. 1201/761, Ref. 1201/711, Ref. 1201/731 and Ref. 1201/751.

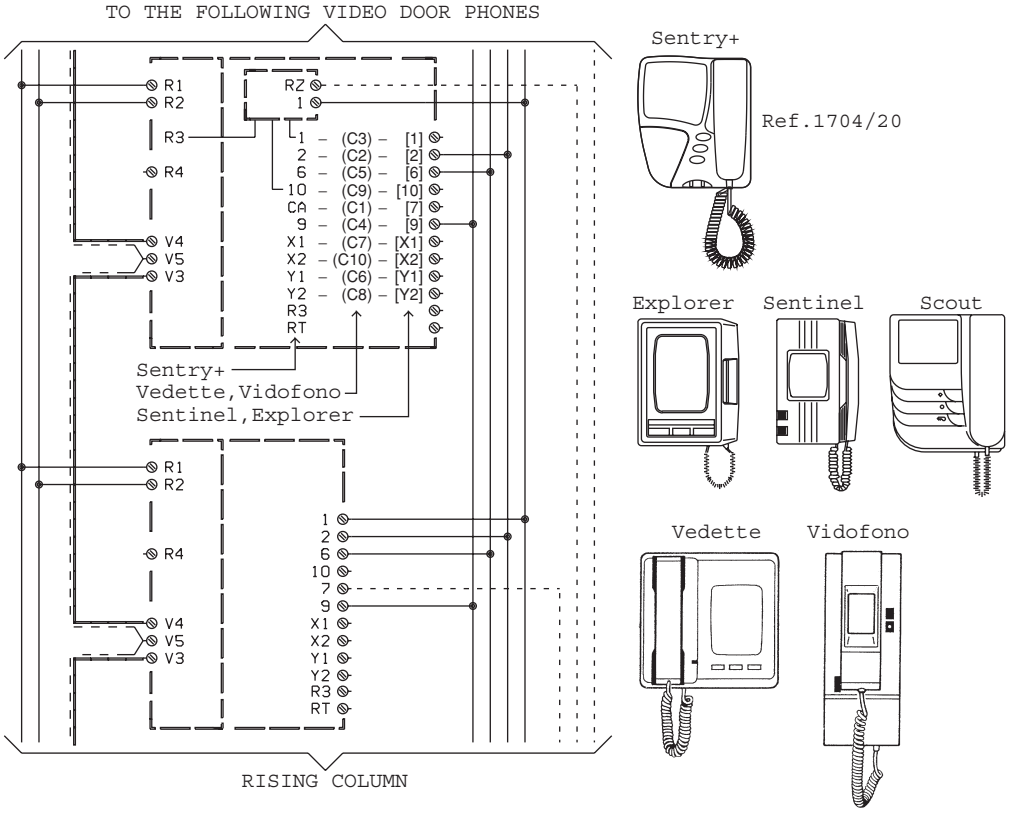
WINFLAT+ BRACKET Ref. 1202/591 FOR ADAPTING VIDEO DOOR PHONE SYSTEMS WITHOUT COAXIAL CABLE

Ranger video door phones Ref. 955/5 with brackets Ref. 955/74 can be replaced in 5-wire systems with Atlantico video door phones Ref. 1702/1 using adapter bracket Ref. 1202/591.
Replacement is only possible in basic systems.

EXPLORER, VEDETTE, SENTINEL AND VIDOFONO VIDEO DOOR PHONES

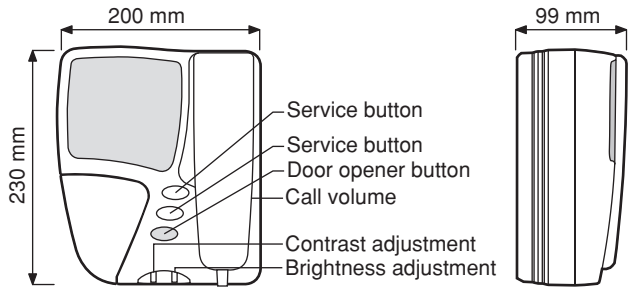
SENTRY VIDEO DOOR PHONE WITH BRACKET Ref. 1704/20A FOR ADAPTING EXPLORER, VEDETTE, SENTINEL AND VIDOFONO SYSTEMS

EXPLORER, VEDETTE and SENTINEL video door phones can be replaced with SENTRY+ Ref. 1704/20A video door phones in traditional call video door phone systems.
SENTRY+ Ref. 1704/20A is a video door phone with a 4.5" kinescope screen arranged on the longest side in the horizontal direction.
The SENTRY+ Ref. 1704/20A bracket terminals have the same numbers as the EXPLORER, VEDETTE, SENTINEL and VIDOFONO terminal boards to simply connect the wires in the same way.
This video door phone can be fitted only in traditional basic systems (with 12Vac call). It is not suitable for use in switchboard or intercom systems because the bracket is not suitable to replace all versions.
SENTRY+ Ref. 1704/20A is complete with bracket and white. The monitor is a reflex version; brightness and contrast can be adjusted by means of the controls. The call signal is sent to the buzzer fitted on the bracket. The door lock can be released by pressing the "🔑" button. The two service buttons "◇" and "◯" can be used to operate accessory circuits.
SENTRY+ Ref. 1704/20A video door phones are used to view the picture from a camera arranged to frame a field with the longest side arranged vertically. This arrangement causes a 25 to 30% reduction of the framed field with respect to EXPLORER, VEDETTE, SENTINEL and VIDOFONO video door phones.



Sentry+ video door phone is provided with an additional speaker to considerably increase volume of the call.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

REPLACEMENT OPTIONS FOR RANGER, EXPLORER, VEDETTE AND SENTINEL IN TRADITIONAL CALL SYSTEM VIDEO DOOR PHONES SYSTEMS



The device is provided with the following controls:
- One door opening button (⊙).
- Two service buttons (◇ and ◯) which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function.
- Two potentiometers for adjusting picture brightness (☼) and contrast (◑).
- One switch for three-position call tone volume adjustment (♪) (minimum, medium and maximum volume).

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5Vdc**
Intake:	**Working:**	**max. 0.65A**
	Stand-by:	**0A**
Power:	**Working:**	**max. 12W**
CCIR version:	**Vertical frequency**	**50Hz ± 2Hz**
	Horizontal frequency:	**15625 ± 400Hz**
EIA version:	**Vertical frequency**	**60Hz ± 2Hz**
	Horizontal frequency:	**15734 ± 400Hz**
Video signal:		**1Vpp 75Ω nominal**
		1Vpp. -6 dB minimum
Kinescope:		**4.5" 90° neck 20mm**
Switch-on delay:		**7" max**
X-rays:		**none**
Operating temperature range:		**-5°÷ + 50°C**
Humidity:		**max. 90% RH**

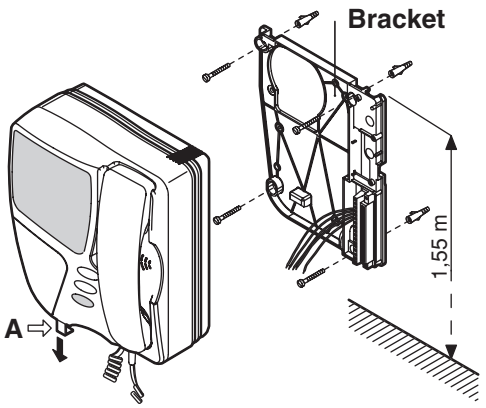
TERMINAL BOARD

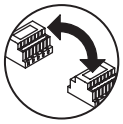
1	Speaker signal
CA	Call signal
2	Microphone signal
6, 10	Power ground
9	Door opener control
X1, X2	Service button terminals ◯
Y1, Y2	Service button terminals ◇
R3	Silent video on
R1	Video power negative
R2	Video power positive
RT	Secondary monitor power positive
V4	Composite video signal for second monitor in-out connection (connect a 75Ω resistor between V4 and V5 if not present)
V5	Video signal earth
V3	Composite video signal

INSTALLATION

Arrange the duct so that it ends in correspondence with the input hole on the bracket and proceed as follows:
1) Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
2) Connect the wires to the specific terminals.
3) Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
4) Check that switch on back of video door phone is in the **A** position.

5) Fasten the monitor to the bracket.
6) Fasten the monitor by pushing the retainer hook **A** upwards.

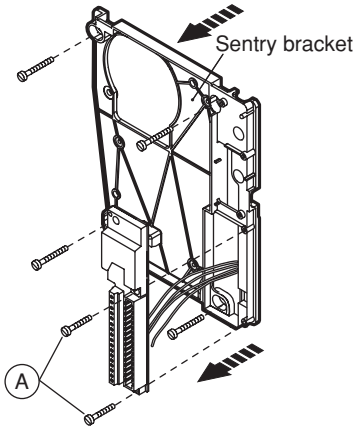




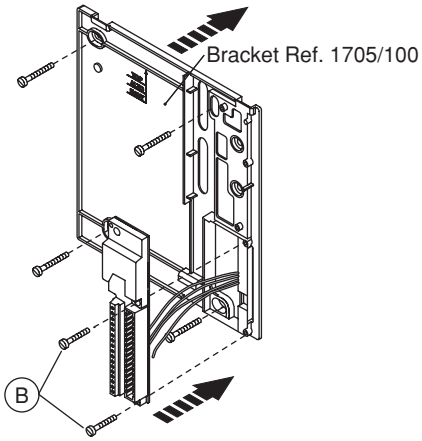
REPLACEMENT OF SENTRY VIDEO DOOR PHONES WITH ARTICO

Using the bracket without circuit for the Artico video door phone Réf. 1705/100 it is possible to replace the Sentry video door phones in any type of system. Proceed as follows:

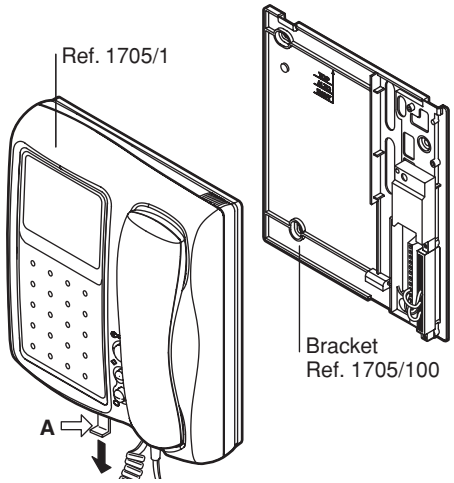
1. Remove the Sentry video door phone from the bracket.
2. Disconnect all conductors from the Sentry bracket terminals.
3. Loosen the 4 fastening screws from the wall bracket
4. Remove the printed circuit from the Sentry bracket by loosening the 2 fastening screws (A).



5. Fit the printed circuit on the Artico bracket Ref. 1705/100 using the 2 screws provided (screws B)
6. Fasten the Artico bracket to the wall using the 4 screws fastening the Sentry bracket



7. Reconnect the wires to the specific terminals.
8. Insert the Artico video door phone on the bracket fastening it with the hook A.



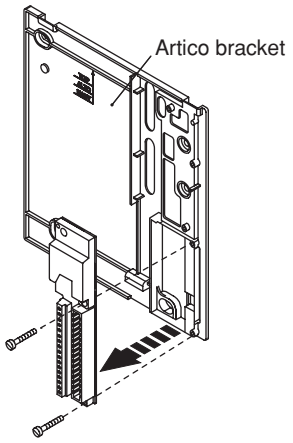
SENTRY+ BRACKET REPLACEMENT

Procure a plastic support Ref.1704/102 and the Artico bracket corresponding to the system in use in the installation to replace a faulty Sentry+ video door phone bracket:

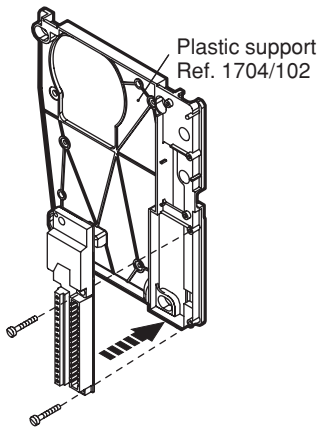
- Coax **Ref. 1705/90**
- 5 wires **Ref. 1705/955**

Then proceed as follows:

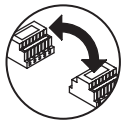
- Remove the printed circuit from the Artico bracket.



- Fasten the printed circuit on the plastic support Ref. 1704/102.



- Remove the Sentry video door phone from the bracket.
- Disconnect all conductors from the Sentry bracket terminals.
- Loosen the 4 fastening screws from the wall bracket.
- Fasten the plastic support on the printed circuit to the wall.
- Reconnect the wires to the specific terminals.
- Fit the video door phone on the bracket.



REPLACING DOOR PHONE POWER UNIT Ref. 786/1 WITH Ref. 786/11

The Ref. 786/11 power unit can replace the obsolete 786/1 model.

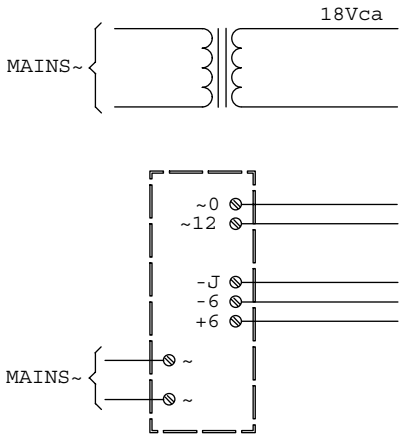
	Ref. 786/1	Ref. 786/11
POWER	0	0
	~230	~230
OUTPUTS	+6	+6
	-6	-6
	-J	-J
	~0	~0
	~12	~12
	PS	PS

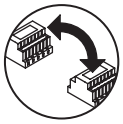
REPLACING DOOR PHONE POWER UNIT Ref. 786/14 WITH Ref. 786/11

The Ref. 786/11 power unit can replace the obsolete 786/14 model.
The terminals correspond as follows:

	Ref. 786/1	Ref. 786/11	Ref. 786/12 (*)
POWER	0	0	0
	~230	~230	Not available
	~110	Not available	~110
OUTPUTS	+6	+6	+6
	-6	-6	-6
	-J	-J	-J
	~0	~0	~0
	~12	~12	~12
	~18	(#)	(#)
	PS	PS	PS

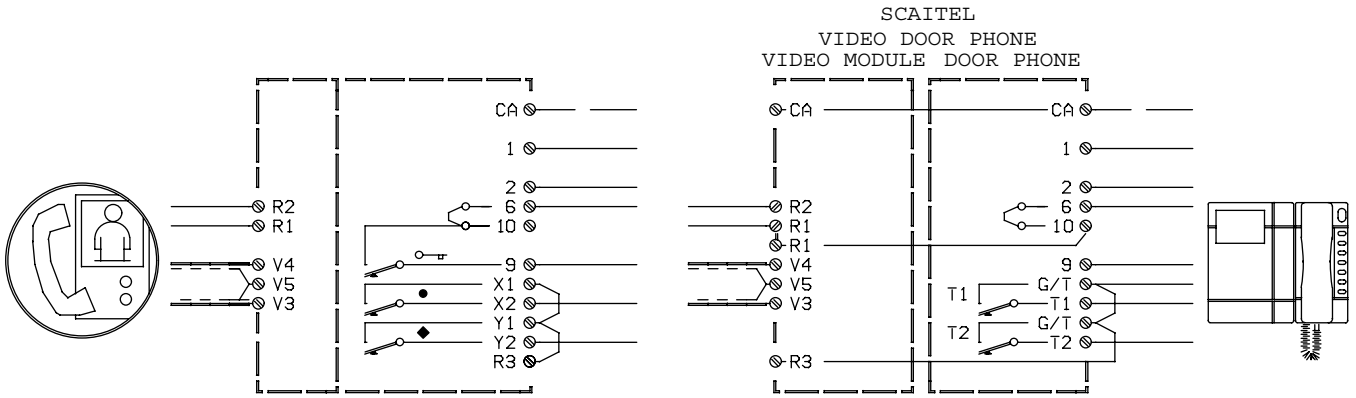
(*) Not available in Italy.
(#) If a 18Vac output is needed, use a transformer with minimum output current of 0.5 Aac and connect as shown in the attached diagram:



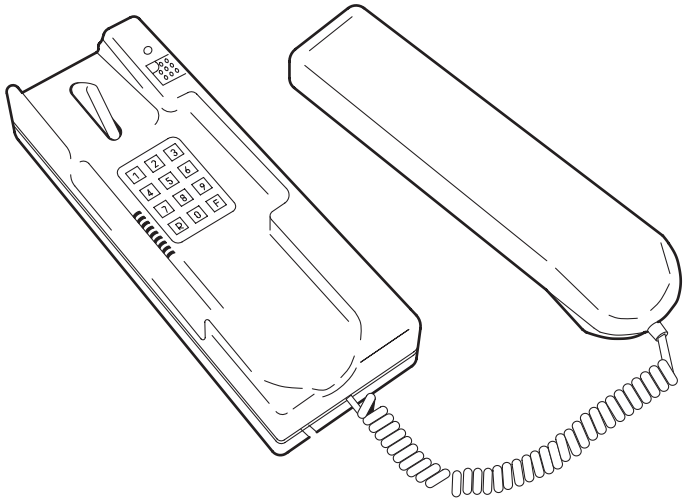


REPLACING SCAITEL VIDE DOOR PHONE

		Mod.Atlantico (A)	Mod.Artico (A)	Mod.Scaitel (B)
BLACK/WHITE	Video door phone	Ref.1702/1	Ref.1705/1	Ref.1732/1 Ref.1132/1 Ref.1132/55
	Bracket	Ref.1202/90	Ref.1705/90	Ref.1732/91
COLOUR	Video door phone	Ref.1702/40	--	Ref.1732/41 Ref.1132/1 Ref.1132/55
	Bracket	Ref.1202/90	--	Ref.1732/91



EASIVOICE SYSTEM



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SECTION 2 CONTENTS

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EASIVOICE SYSTEM

ELECTRONIC INTERCOM SYSTEM Mod. 926

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ELECTRONIC INTERCOM SYSTEM Mod. 926

Electronic intercom Mod. 926 can be installed in any building for a simple and efficient phonic communication system capable of supporting several communications simultaneously.

Up to 97 intercom door phone can be interconnected. There is no centralized device to manage the system since each intercom contains the necessary electronics for handling a dialogue with the rest of the installation.

There can be up to four independent communications simultaneously.

A general call can be made through an independent fifth phonic channel.

Programming is very easy and does not require having to open the intercom door phone.
There are two versions of the intercom door phone which can be easily distinguished one from the other by the presence or absence of the door-opener key:

- Intercom model **Ref. 926/1**
- Intercom model that can be connected to a loudspeaking unit **Ref. 926/2**

There are two versions:

- Connection to 97 intercoms max. only with intercom service.
- Connection to 25 intercoms max. with intercom service and with possibility of answer to outdoor station.

SYSTEM FEATURES

The following is a summary of system features:

- Connection of a maximum of 97 intercom door phones.
- Very easy programming of the door phone codes that can be made directly from outside (of the same door phone).
- 4 simultaneous and independent conversations.
- Possibility of conference among 4 door phones max.
- Possibility of busy line insertion.
- Clearing the line (only from an activated door phone).
- Possibility to oblige the user to answer.
- Possibility to route the call to another door phone (follow-me). This function - if necessary - can be modified for realizing automatically the “secretary function”.
- “Secretary” function, that is the possibility to transfer the incoming calls from an intercom “x” to a “y” one. Anyway “y” can call “x” and the last one can make outgoing calls.
- Paging function carried out by means of a 5th independent and dedicated line, connected to a loudspeaker by means of an amplifier (only from activated intercom/s).
- Possibility of connection to an amplifier able to manage sound and message diffusion with “disk-jockey” function (automatic lowering of the sound diffusion volume during the sounding message).
- Possibility to receive door phone calls from a call station appropriately connected (only for Mod. 926/2). In case the intercom is already engaged in conversation with another indoor set, the possible call from the outdoor station is signaled both visually and acoustically.
- Automatic lowering of the sound intensity of the beep on the loudspeaker when the handset is unhooked and the hook is pressed with a finger.

The system utilizes a single phonic ground conductor, therefore it cannot guarantee absolute secrecy of conversation, i.e. during the course of a conversation, it may be possible to hear another conversation in course on another line (crosstalk effect) at a distance. It will be necessary to adopt appropriate measures to minimize this problem.

EQUIPMENT

The device forming part of the system are as follows:

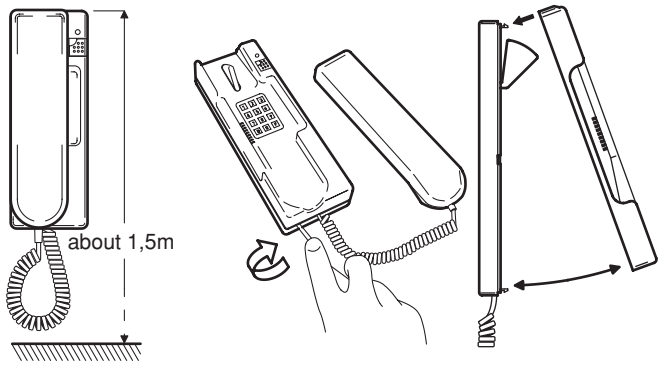
- Intercom door phone **Ref. 926/1**
- Intercom door phone and with connection to loudspeaking unit **Ref. 926/2**
- Table kit **Ref. 926/4**
- Power supply for electronic Intercom **Ref. 926/3**

INTERCOM DOOR PHONE FEATURES

The intercom door phone can either be installed on a wall or on a table.
Adaptation kit Ref. 926/4, consisting of an inclined stand to facilitate the use of the intercom itself, is available for table installations.

INSTALLATION

WALL SET



The intercom should be mounted about 1,5m from the floor.

To remove the intercom casing from the base, lift up with a screwdriver in the area indicated.
Lift off the casing.

Use the screw anchors and screws furnished with the intercom to fasten the base to the wall.

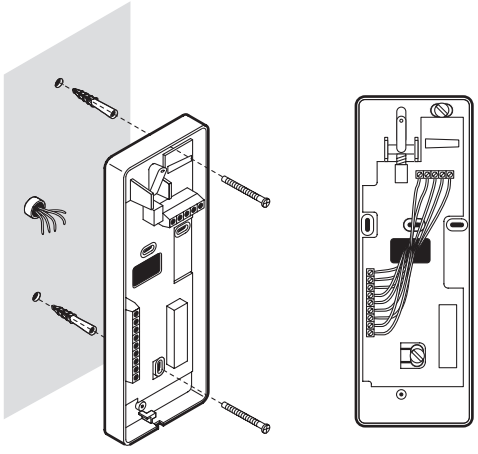
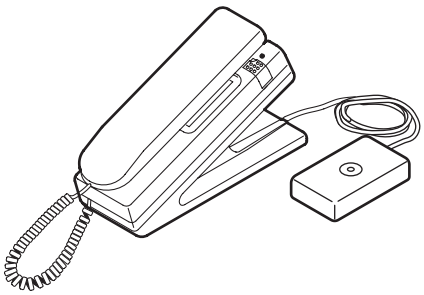
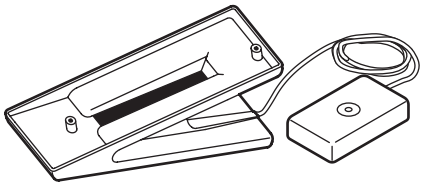


TABLE SET

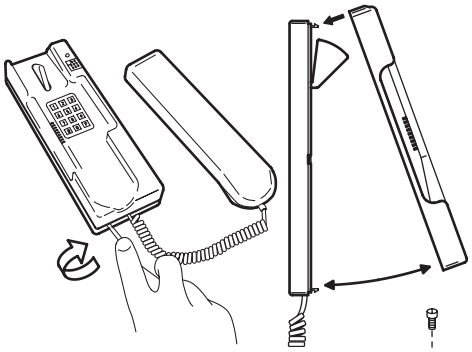


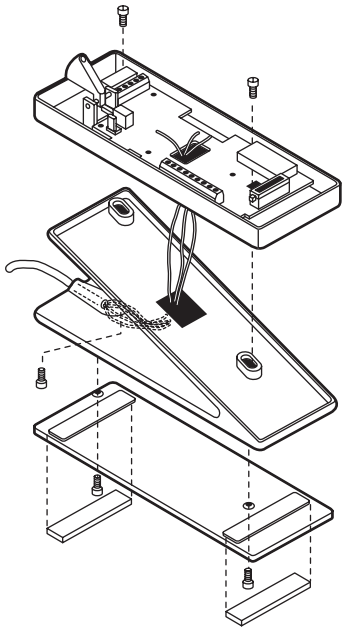
For table mounting it is necessary to buy the table kit that includes stand, cord with socket and accessories Ref. 926/4.



Proceed as follows:

- Remove the intercom casing by means of a screwdriver in the area indicated, rotating the cover on the two upper hooks.
- Release the two side latches E by pressing them from the inside of zone F.
- Fix the plate under the base by means of the proper screws.
- Insert under the base, in the proper holes, the two self adhesive rubbers (included in the socket kit).
- Insert the cord with socket and fix it to the hook. Then connect the system wires to the correspondent terminals of the terminal board.



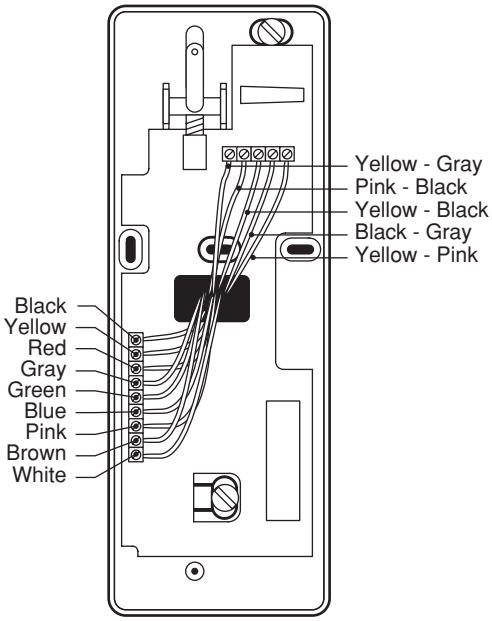


The connection cable wires to the door phone socket wire are very specific for table installations. They must be connected to the intercom terminals as follows:

MI	Black	D	Yellow
+12	Red	MF	Gray
L1	Green	L2	Blue
L3	Pink	L4	Brown
L5	White		

Connection for the loudspeaking unit (Ref. 926/2 only):

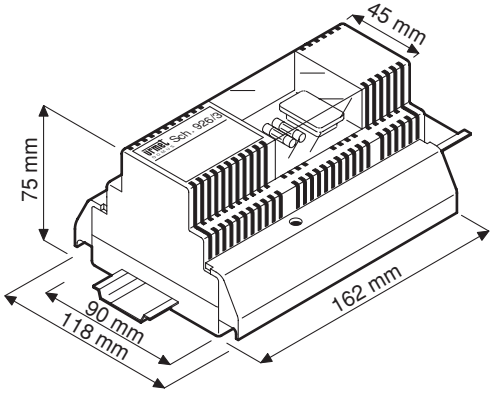
CA	Yellow-Gray	2	Pink-Black
1	Yellow-Black	-/~	Black-Gray
AP	Yellow-Pink		



PUSH BUTTON PANEL AND AMPLIFIED LOUDSPEAKING UNIT

The devices normally used in 4+n wire door phone systems can be employed.

POWER SUPPLY Ref. 926/3



This power supply has been designed according to the IEC 12/13 5th Ed. Dec. 1988 International Security Regulations - and is built following the present market requirements, the tendency of which is to centralize the electric equipment in proper cabinets.

FEATURES

The power supply 926/3 is set for a medium system of 25 intercoms (926/1). In case of systems with more intercoms, connect more power supplies in parallel, up to 4 max. In this case follow carefully the system schemes.

TECHNICAL DATA

- **Electrical characteristics**
  Transformer power: **38 VA**
  Powering: **110/230 ~**
  Secondary voltages:
  11.5V 0.6 A
  24V 40 mA max.
  24V 10 mA max.
- **Powering 11.5 V section:**
  It supplies powering to the intercoms and max. current of 600 mA;
- **Phonic line powering section:**
  It includes 5 identic circuits. Each circuit supplies a constant current of about 30 mA with max. voltage of 24 V;
- **Data output:**
  It supplies a voltage of 24 V with a resistance series 2.2 K Ω per data wire.
- **Amplifier output:**
  On this output the signal coming from the 5th phonic line is injected and it is uncoupled by means of condenser. The output circuit includes two schottky diodes with a 150 Ω resistance in parallel.

- Operating temperature: **0° C ÷ 40°C**
- Dimensions:
  Length: **162 mm**
  Thickness: **75 mm**
  Width (with side protections): **108 mm**
  Width (without side protections): **90 mm**
  Weight: **0.950 Kg**
  Connections: **by means of terminals with clamping screw**

FUNCTIONS

All functions can be activated through the 12-key alphanumeric keypad located on the base of the intercom:

1	2	3
4	5	6
7	8	9
R	0	F

NOTE:
R = Redial
F = Follow-me

The key located on the upper right of Mod. 926/2 is used for opening the door. Other functions (clearing a line, general call) can only be performed from authorized (enabled) intercoms. The activation of these functions can only be done during the programming phase.
Please consult the chapter on programming for further information.

SINGLE CALL

Caller
To talk to another intercom station:
- Lift the handset.
- Dial the TWO DIGIT number of the other-party.
- Listen for the tone and observe the led:
  - Ringing tone: wait for the called party to answer.
  - Busy tone and led off: the number called is engaged → try again later or activate the automatic redial function or the clear the line function (if authorized).
  - Busy tone and led on: the 4 telephone lines are engaged → try again later.

Called Party
When the phone rings, lift up the handset and begin the conversation. At the end of the conversation, if the called party hangs up the handset the intercom is disconnected from the line and it will communicate, on the data line, the end of the conversation to the caller who, in his turn, will disconnect his intercom physically and logically from the line. The handset will be mute until the hanging up.
On the contrary, If the caller hangs up the handset, he will free the line, physically and logically, and he will communicate to the called party the end of conversation. This last one, in his turn, will disconnect the intercom physically.

A conversation cannot last longer than 10 minutes in order to allow other users access to the phone lines. Once this time has lapsed, an acoustic "end-of-conversation warning" signal will be sent to both intercom door phones.
The communication will be disconnected 10 seconds after the warning signal.

REDIAL RESERVATION

Caller
If the number called is engaged, an automatic redial reservation can be activated by pressing the "R" key before hanging up. Then listen for the tone:
- No tone: automatic redial reservation was accepted → hang up.
- Persistent busy tone: automatic redial reservation was not accepted because the number called already has an automatic redial reserved onto its line from another intercom → hang up and try again later. When the intercom door phone that was reserved to becomes free, the caller who initiated the reservation will automatically receive a call-back.

Attention: *there will be situations in which the call-back will not take place. These situations will be described in the "Called Party" section below.*

Called Party
During the course of a normal conversation, any reservations to the line will be indicated by a blinking led on the intercom. The user who is the subject of a reservation has two courses of action:
- He can decide "a priori" to eliminate the reservation by pressing the "R" key either during the course of the conversation or immediately after hanging up (within 5 seconds).
- He can decide to talk to whoever had reserved by hanging up and waiting for the system to automatically set up the communication and then for his intercom to ring.
  If all of the phonic lines are not engaged, this will take place within 5 seconds after hanging up. If, however, all the lines are engaged, the system will attempt to establish the communication every 15 seconds, up to maximum of 10 trials. The reservation will be canceled if the tenth attempt was also unsuccessful.

CLEARING THE LINE

Caller (only from authorized intercom door phones)
Lift the handset and dial the number of the called party. If this party is on the line (busy tone is heard and led is off), the line can be "cleared" i.e. the conversation in course can be disconnected. To do so, simply dial the special "00" number.
Conversation will be established with the cleared intercom door phone within 20 seconds.

Called Party
A clearing request during the course of a normal conversation will be identified both acoustically and visually (blinking led).
At this point, the called party will have 20 seconds in which to terminate the conversation in course.
There are two possible courses of action:
- Hang up within 20 seconds. The intercom will ring and when the handset is lifted, communication will be established with the caller who had initiated the "clearing".
- If the called party does not hang up within 20 seconds, he will be disconnected from his current conversation and connected with the caller who had requested the "clearing".

The line clearing function WILL HAVE NO EFFECT on another intercom which is also authorized to clear lines or if the intercom is in communication with the outdoor station.

CONFERENCE CALL

The conference function can connect up to four different users in one phonic communication. Only the intercom which made the first call can call other intercom in the course of a conversation. In order to include another intercom in the conversation, simply dial the extension number. One of the following situations will occur:
- The intercom door phone called is free: when the handset is lifted, the called party will be included in the conversation in course.
- The intercom door phone is free: if the handset is not lifted within 30 seconds, the call will not go through.
- The intercom door phone called is engaged: there will be a busy tone of a short duration.

FOLLOW-ME

This function allows incoming calls to be routed to another intercom. Up to a maximum of eight other intercoms can be routed to one intercom. Several consecutive reroutings of calls from one intercom can be made to several different intercoms.

How to forward calls from one intercom door phone to another
- Go to the other intercom door phone.
- Lift the handset of the other intercom.
- Press the dedicated “F” key and dial the number of your intercom door phone.
- Listen for the tone on the handset; one of the following two situations will take place:
  - Dial tone: the operation was successful → hang up.
  - Busy tone: calls cannot be routed because calls to 8 other intercoms have already been forwarded to that intercom → hang up.

How to reset your intercom door phone
- Return to your intercom.
- Lift the handset.
- Press the dedicated “F” key and dial your own number.
- Hang up.

Secretary function
This function permits the user to route his own incoming calls to another intercom (i.e. the secretary one). All his own incoming calls are routed to the secretary intercom EXCEPT the call that arrives from the same secretary. In this way the secretary can, if needed, “announce” the calls; anyway it cannot “transfer” the call. The routed set can always make outgoing calls (and then it can call again the person “announced” by the secretary). This function can be carried out by modifying the “follow me” as regard to the last paragraph (the crossed one).

GENERAL CALLS (only from authorized intercom door phone)

A general call can be made through a loudspeaker connected to a suitable amplifier.
The general call can take place at the same time as four other conversations, without interfering with them. General call can only be made from intercoms which were explicitly defined for making such calls during the programming phase.
To make a general call:
- Lift the handset.
- Dial the special “99” number.
- Wait for the “ding-dong” to be generated.
- Make the announcement.
- Redial the special “99” number.
- Hang up.

ANSWERING A CALL FROM THE OUTDOOR STATION

This feature is only available on Ref. 926/2 intercom door phone.
A call from the outdoor station produces a different acoustic signal from the normal one and can be easily recognized. Lift the handset to establish communication; the open-door key can be used to operate the electric lock at any point.

When a user, engaged in conversation with the outdoor station, receives a call from the inside, he visualize the call on the led without the possibility to be interrupted (not even with the clearing the line function).
Vice versa, when a user, engaged in conversation with another internal user, receives a call from an outdoor station, he will see the blinking led up to the call key is pressed and he will hear an acoustic signal that indicates the call with more emphasis.

PROGRAMMING

All the intercom door phones are produced and tested by URMET DOMUS. They are all programmed with the following values during the testing phase:
- Number: 98
- General call function disabled: 0
- Line clearing disabled: 0

The devices must all be programmed with two digits, e.g. from 01 to 09, from 10 to 19, from 20 to 25, or with any other number from 01 to 97.

These values can be changed at any time through the keypad by following the procedure described below:
- Simultaneously press the “R” and the “F” keys for two seconds. If one or two “beeps” are heard while the keys are pressed, it means that the two keys were not pressed simultaneously → repeat the operation.
- When the led is lit and a brief acoustic tone is heard, release the two keys.
- Enter the number to be assigned to the intercom.
- The led will go off for a short interval and then go on again, coinciding with a brief acoustic tone.
- Set authorization (1) or disable (0) for the general call function.
- The led will go off for a short interval and then go on again, coinciding with a brief acoustic tone.
- Set authorization (1) or disable (0) for the line clearing function.
- The led goes off definitively, coinciding with a brief acoustic tone.

If the procedure described above is not completed within 30 seconds, the intercom will return to normal operating conditions, without storing the setting that were entered.

INSTALLATION

WIRES LAYING

All system intercom door phones must be interconnected in parallel using 9 wires (or 8 if the general call installation is not provided for). These wires have the following functions:
- 1 for the power supply voltage **+ 12**
- 1 for the logical ground **ML**
- 1 for the data line **D**
- 4 for the 4 phonic lines **L1, L2, L3, L4**
- 1 for the general call phonic line (this wire can be omitted on installations where this feature is not required) **L5**
- 1 for the phonic ground **MF**

In addition, installations connected to a Call Station must be considered 4+N additional wires, which increase the number of wires to the installation to 13+N (where N depends on the number of call keys used – usually 1 or 2).
These 4+N wires are used as follows:
- 3 for the talk volume (F1, F2 and ground).
- 1 for the door-opener.
- N for the call.

If the GENERAL call amplifier is not used do not connect the wire L5.

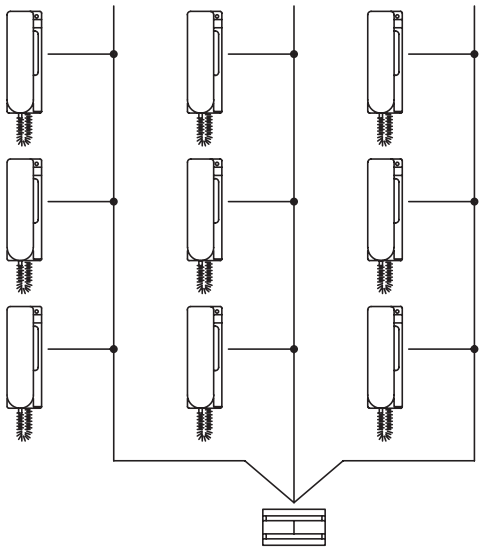
The maximum distance between the power supply and the furthest intercom must be less than 200 meters.
The maximum distance between two intercom door phones to ensure a relatively low cross-talk effect is 200 meters. The cross-talk effect increases progressively with an increase in distance.
It is therefore advisable to avoid unnecessary connections distances.

WIRE SECTION

The section of the wires to be used depends on the distance between the two intercoms furthest from the installation.
Note carefully the following table:

Max distance (meters)	50	100	200
Section (mm^2)	0,50	0,80	1
R (Ohm/Km)	35	21,8	17,5

Should it be necessary to have larger installations, it would be possible to resort to a solution in which more branches lead off from one point, as illustrated in the figure below. In this case, the cross-talk effect would remain unchanged within each individual branch (the maximum distance between any two intercoms must therefore be less than 200 meters). However, intercoms on different branches would not have any effect on each other. This type of solution can also be used on normal installations, i.e. for short distances, to further reduce the cross-talk effect.



CONNECTION TO THE GENERAL CALL UNIT

A suitable amplifier must be connected between the “A+” and the “A-” terminals of the power supply in order to equip the installation with a general call system. The amplifier must have a 0,775 mV (or dBm) input with an input impedance greater than 50 Ohm and with its output power selected in function of the number and power of the loudspeakers to be used.
It is recommended that the amplifier be placed as close to the power supply as possible and be connected to it with a shielded cable.

CONNECTION TO THE CALL STATION

Installation can be made with up to two Call Stations with automatic switching (through a 788/1 relay box). Each Call Station must consists of a Loudspeaking Unit and a certain number of call keys.
Power to the Call Station must be supplied separately by a dedicated power supply (e.g. Ref. 786/1A). Connections to the loudspeaking unit must be made through terminal 1A. The electric lock must be activated through a Ref. 788/21 repeater relay. The door-opener is always a “free door-opener”, i.e. the door can be opened at any time by pressing the door opener-key.

INSTALLATIONS WITH ONE CALL KEY

A basic installation is one in which several intercoms (type 926/2) are connected to a Call Station and can all answer a single call key. In this case, when there is a call, all 926/2 intercoms will ring at the same time. The first intercom to answer will automatically exclude the other intercom, thus ensuring conversation privacy. The maximum number of 926/2 intercoms which can be connected in parallel depends, in this case, on the total number of intercoms (926/1 + 926/2) in the installation.
The following table summarizes the situation for standard installations with just one power supply.

Total numbers of intercoms (926/1 + 926/2)	Number of 926/2 which can be connected to a Call Station on one call button
1	1
2	2
.	.
.	.
.	.
15	15
16	16
17	15
18	14
19	14
20	13
21	12
22	12
23	11
24	10
25	10

Note that when the total number of intercom door phones in the installation is less than 16, they can all be type 926/2 and can be connected to the Call Station on the one call key. As the total number of intercoms in the installation is increased, the number of 926/2 which can be connected to a Call Station decreases progressively to 10.

INSTALLATIONS WITH TWO OR MORE CALL KEYS

This type of installation is used in small buildings (2/4/8/ apartments) where intercommunications and the “Follow-me” feature would be of interest. In this case, the cable conduit would be 8 (or 9) + 4 + N wires, which would limit possible applications to small user bases.
Type 926/2 intercoms must be used. They must be grouped in several groups (usually 1, 2 or 3 units each), each of which is assigned to a call key. When there is a call, all intercoms within the same group will ring simultaneously. The first intercom to answer will automatically exclude the other intercom door phone in that group, thus ensuring secrecy of conversation.
The table in the previous section remains valid, even though the number of 926/2 intercoms that are connected to each call key is generally 1 or at maximum, 2 or 3, in this type of installation.

EASIVOICE

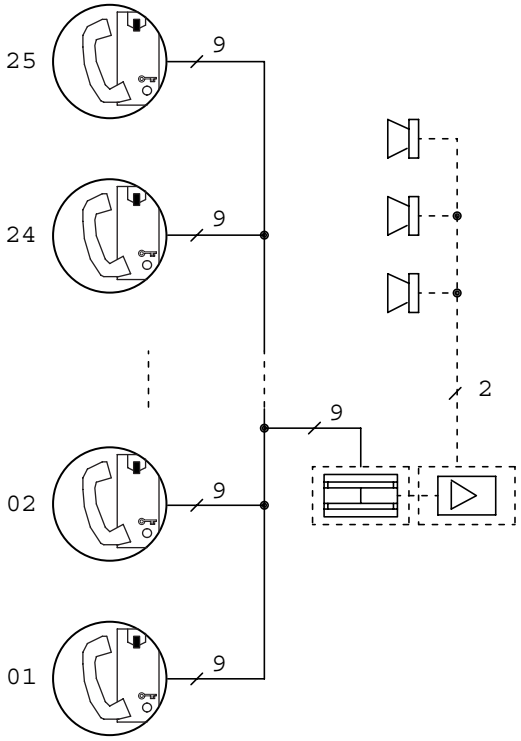
INTERCOM CONNECTION OF MAXIMUM 25 INTERCOM DOOR PHONES
Possibility of general call service by means of loudspeakers

FEATURES

This system allows an intercom service up to 25 intercom door phones maximum and with possibility of 4 simultaneous and independent conversations.
It is possible to make a general call by means of a 5th independent phonic channel.
All the intercom door phones must be programmed with two digits, i.e. from 01 to 09, from 10 to 19, from 20 to 25, or any other number between 01 and 97.

Connect the GENERAL CALL installation only if necessary. It is recommended that the amplifier be placed as close to the power supply as possible and be connected to it with a shielded cable.

The power supply Ref. 926/3 is sized for an average installation of 25 intercoms. A larger number of intercoms will require additional power supplies connected in parallel, each of which will supply power to its own group of 25.
It is recommended that the power supply Ref. 926/3 be placed at the center of the installation to minimize the cross-talk effect.



EQUIPMENT

For said installation (Scheme SC101-0313E) the following:

N. 25	Intercom door phones	**Ref. 926/1**
N. 1	Power supply	**Ref. 926/3**
N. 1	Amplifier *Possible and not supplied by URMET DOMUS*	
N. X	Loudspeakers Possible and not supplied by URMET DOMUS	

WIRES

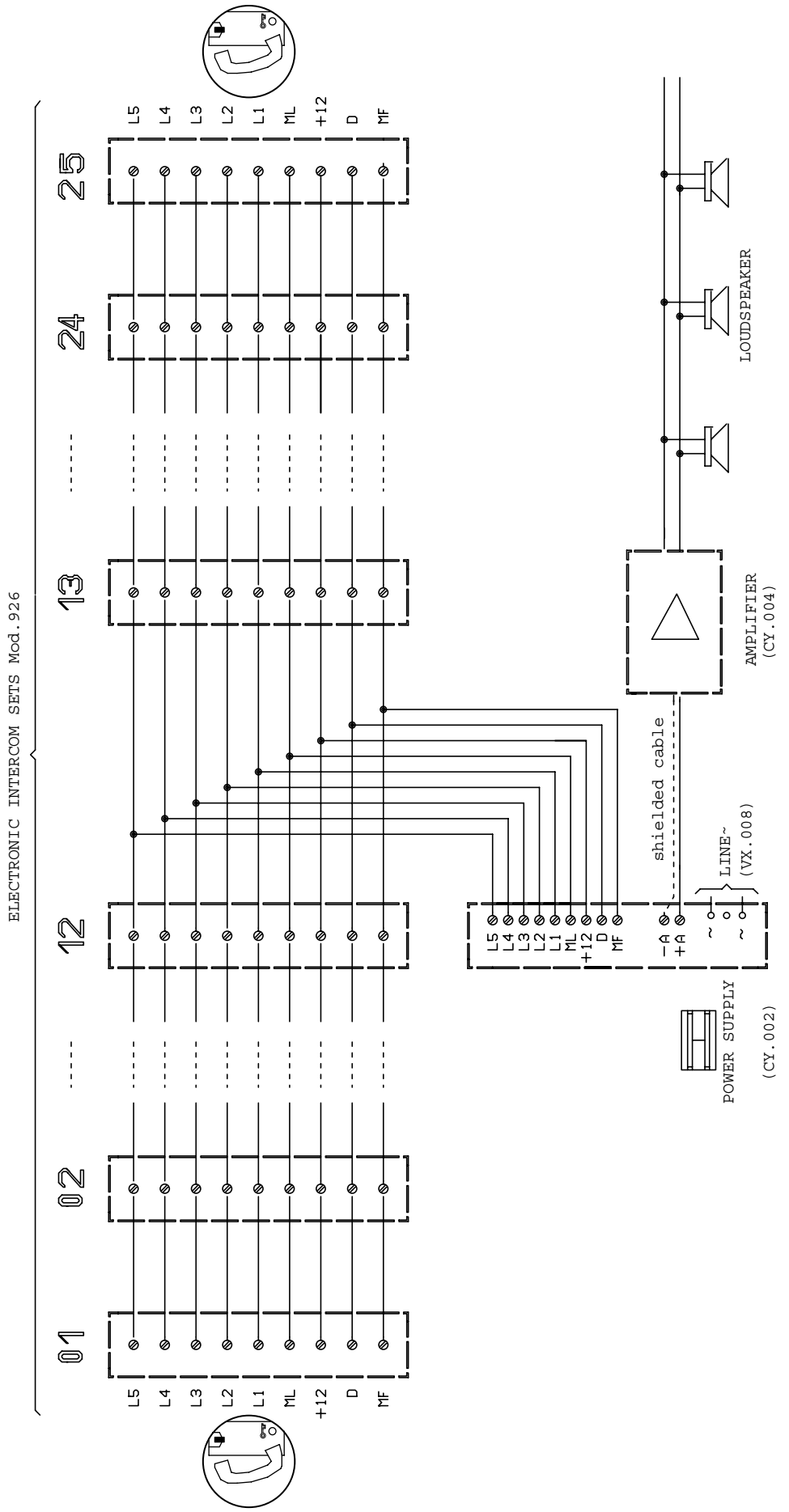
As indicated in Scheme SC101-0313E.
9 wires common to all the intercom door phones coming from the power supply are necessary.
In case the amplifier is not used for the GENERAL CALL, do not connect the wire L5 among the several intercoms. The common wires are reduced to 8.

DIAGRAM NOTES

(see section 1)
CY.001
CY.002
CY.003
CY.004
VX.008

COLLEGAMENTO INTERCOMUNICANTE DI UN MASSIMO DI INTERCOM CONNECTION OF MAXIMUM 25 INTERCOM DOOR PHONES
Possibility of general call service by means of loudspeakers

SC101-0313E



EASIVOICE

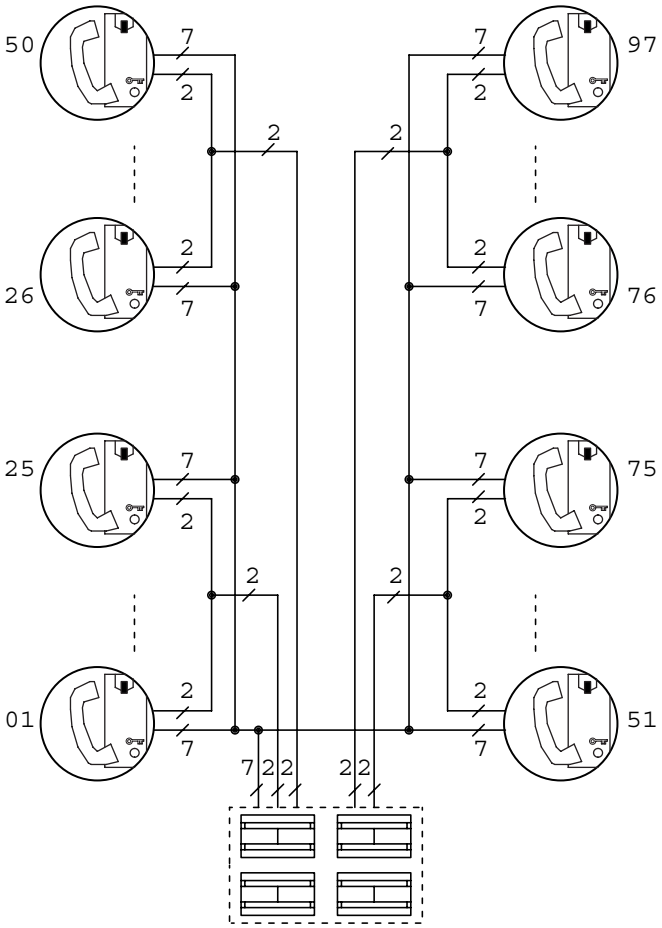
COLLEGAMENTO INTERCOMUNICANTE DI UN MASSIMO DI INTERCOM CONNECTION OF MAXIMUM 97 INTERCOM DOOR PHONES Possibility of general call service by means of loudspeakers

FEATURES

This system allows an intercom service up to 97 intercom door phones maximum and with possibility of 4 simultaneous and independent conversations.
It is possible to make a general call by means of a 5th independent phonic channel.
The intercom door phones must all be programmed with two digits, i.e. from 01 to 09, from 10 to 19, from 20 to 25, or any other number between 01 and 97.

Connect the GENERAL CALL installation only if necessary. It is recommended that the amplifier be placed as close to the power supply as possible and be connected to it with a shielded cable.

The power supply Ref. 926/3 is sized for an average installation of 25 intercoms. A larger number of intercoms will require additional power supplies connected in parallel, each of which will supply power to its own group of 25.
It is recommended that the power supply Ref. 926/3 be placed at the center of the installation to minimize the cross-talk effect.



EQUIPMENT

For said installation (Scheme SC101-0315E) the following:

N. 97	Intercom door phones	**Ref. 926/1**
N. 4	Power supplies	**Ref. 926/3**
N. 1	Amplifier *Possible and not supplied by URMET DOMUS*	
N. X	Loudspeakers Possible and not supplied by URMET DOMUS	

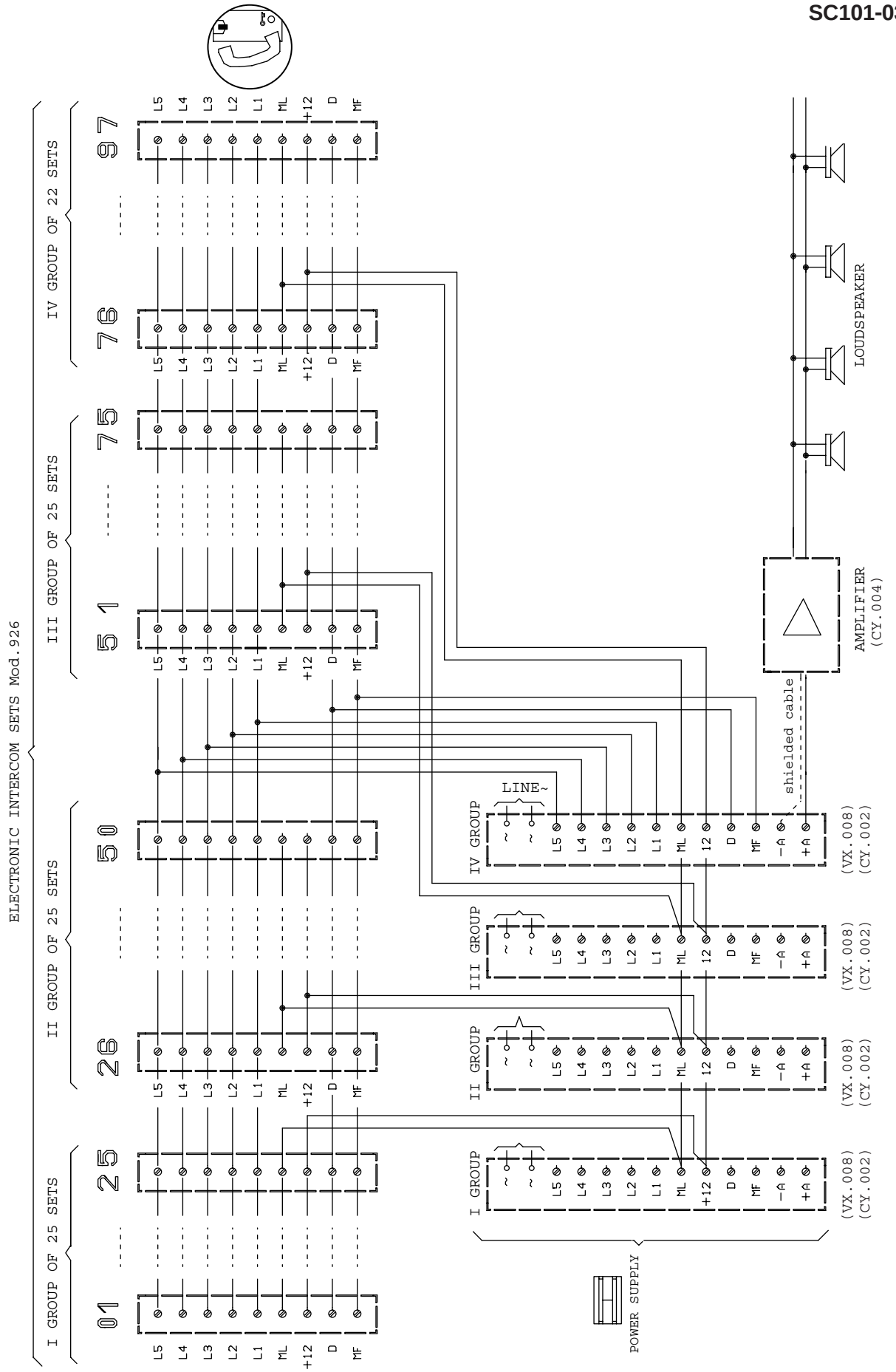
WIRES

As indicated in Scheme SC101-0315E.
7 wires common to all the intercom door phones coming from the power supply are necessary.
Each power supply feeds its group of 25 intercoms with 2 wires common to the intercoms of that group.
In case the amplifier is not used for the GENERAL CALL, do not connect the wire L5 among the several intercoms. The common wires are reduced to 6.

DIAGRAM NOTES

(see section 1)
CY.001
CY.002
CY.003
CY.004
VX.008

SC101-0315E


ELECTRONIC INTERCOM SETS Mod.926
I GROUP OF 25 SETS
II GROUP OF 25 SETS
III GROUP OF 25 SETS
IV GROUP OF 22 SETS
01 25 26 50 51 75 76 97
L5 L4 L3 L2 L1 ML +12 D MF
LINE~
I GROUP
II GROUP
III GROUP
IV GROUP
12 -A +A
(VX.008) (CY.002)
shielded cable
AMPLIFIER (CY.004)
LOUDSPEAKER
POWER SUPPLY

EASIVOICE

INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES
With possibility to answer to 1 outdoor station
All the intercom door phones are called in parallel from the outdoor station

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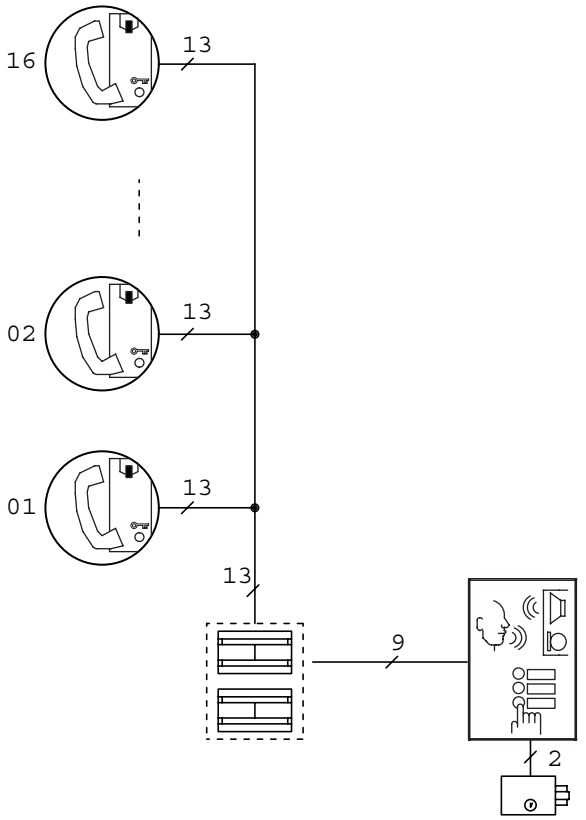
FEATURES

This system allows an intercom service up to 16 intercom door phones maximum and with possibility to answer to the calls coming from the outdoor station. It is possible to make 4 simultaneous conversations among the several intercoms plus one with the outdoor station.
The outdoor station has only one call key. When it is pressed all the intercom door phones 926/2 ring simultaneously: the first intercom that answers automatically excludes all the other ones, guaranteeing the secrecy of conversation.

The intercom door phones must all be programmed with two digits, i.e. from 01 to 09, from 10 to 19, from 20 to 25, or any other number between 01 and 97.

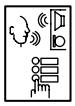
Due to absorption problems, no more than 16 intercoms can be called in parallel. It is recommended that the power supply Ref. 926/3 be placed at the center of the installation to minimize the cross-talk effect.



EQUIPMENT

For said installation (Scheme SC 101-0316G) the following:

N. 16	Intercom door phones		**Ref. 926/2**
N. 1	Power supply		**Ref. 926/3**
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
		28VA	**Ref. 786/1**
		28VA	**Ref. 786/14**
		38VA	**Ref. 786/38**
N. 1	Relay		**Ref. 788/21**



OUTDOOR STATION REFERENCES

Mod. Sinthesi

N. 1	Module with door unit set-up	**Ref. 1145/21**
N. 1	Door unit	**Ref. 1145/500**

Mod. K-Steel

N. 1	Module with door unit	**Ref. 1155/21**

Mod. 725

N. 1	Panels with 1 button	**Ref. 725/101**
N. 1	Door unit	**Ref. 5150/500**

Domus Aura model

N. 1	Panels with 1 button	**Ref. 1110/1**
N. 1	Door unit	**Ref. 5150/500**

NOTE: *for correct installation of panels refer to "Door phone and Video door phone Product Technical Manual".*

WIRES

As indicated in Scheme SC101-0316G.
13 wires common to all the intercom door phones are necessary, 8 of which coming from the power supply Ref. 926/3 and 5 from the push button panel, power supply and relay.

The electric lock will be released through the relay box Ref. 788/52.

DIAGRAM NOTES

(see section 1)
CY.001
CY.002
CY.003
VX.008

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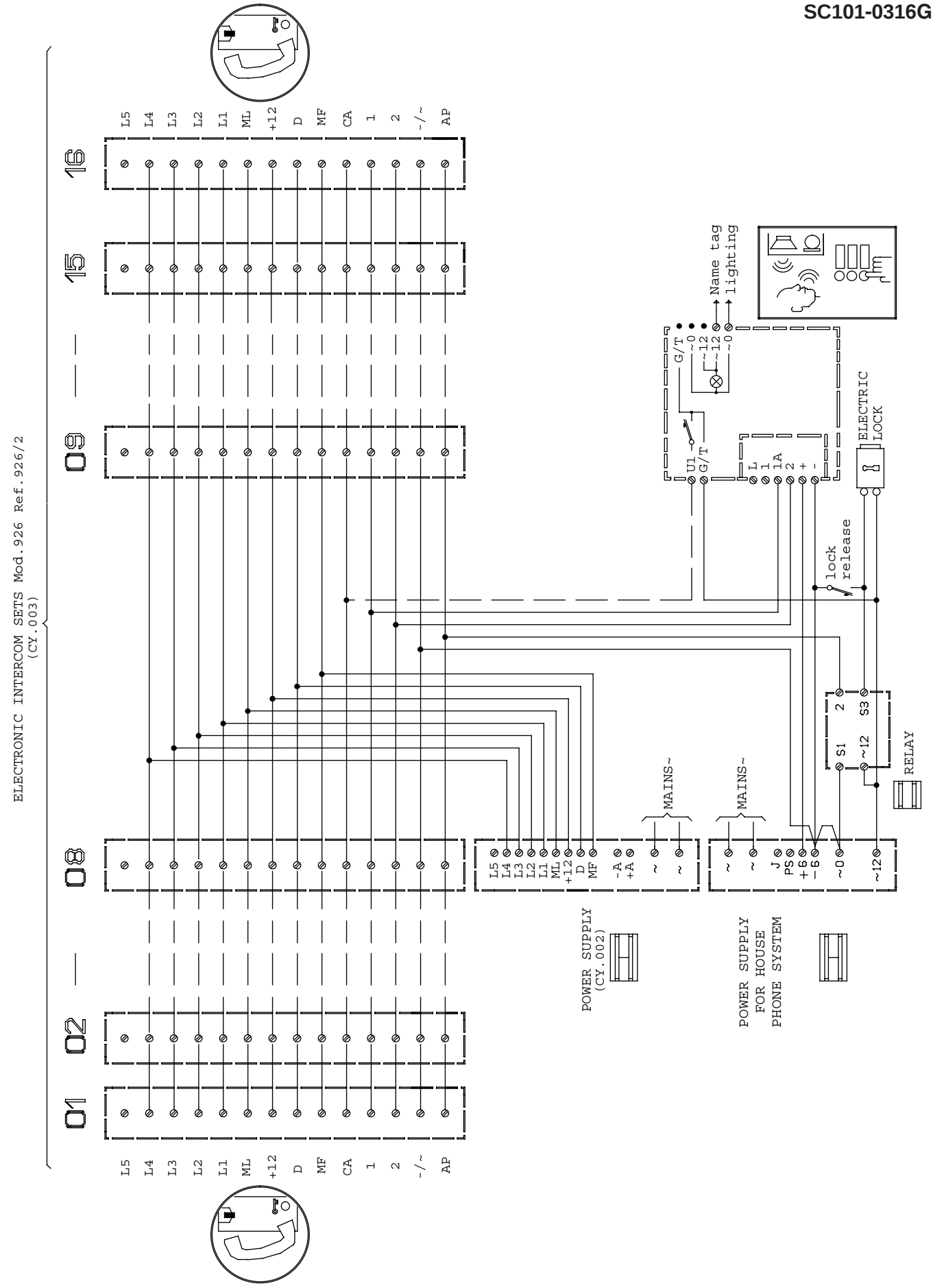
INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES
With possibility to answer to 1 outdoor station
All the intercom door phones are called in parallel from the outdoor station

EASIVOICE

SC101-0316G



EASIVOICE

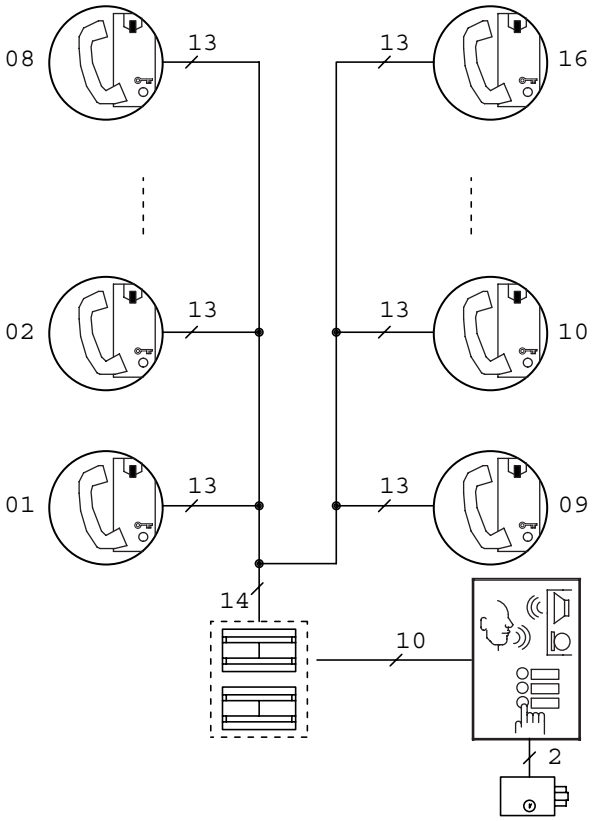
INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES With possibility to answer to 1 outdoor station The intercoms are divided in two groups of 8. The outdoor station is equipped with two keys: with one of them it calls in parallel the 8 intercoms of group I, with the second one those of group II

FEATURES

This system allows an intercom service up to 16 intercom door phones maximum and with possibility to answer to the calls coming from the outdoor station. It is possible to make 4 simultaneous conversations among the several intercoms plus one with the outdoor station.
The outdoor station has only two call keys: with one of them it calls in parallel the 8 intercoms of group I, with the second one those of group II. The first intercom that answers automatically exclude all the other ones, guaranteeing the secrecy of conversation.

The intercom door phones must be programmed with two digits, i.e. from 01 to 09, from 10 to 19, from 20 to 25, or any other number between 01 and 97.

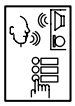
Due to absorption problems, no more than 16 intercoms can be called in parallel. It is recommended that the power supply Ref. 926/3 be placed at the center of the installation to minimize the cross-talk effect.



EQUIPMENT

For said installation (Scheme SC 101-0361G) the following:

N. 16	Intercom door phones		**Ref. 926/2**
N. 1	Power supply		**Ref. 926/3**
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
		28VA	**Ref. 786/1**
		28VA	**Ref. 786/14**
		38VA	**Ref. 786/38**
N. 1	Call repeater relay		**Ref. 788/21**



OUTDOOR STATION REFERENCES

Mod. Sinthesi

N. 1	Module with door unit set-up	**Ref. 1145/22**
N. 1	Door unit	**Ref. 1145/500**

Mod. K-Steel

N. 1	Module with door unit	**Ref. 1155/22A**

Mod. 725

N. 1	Panels with 2 buttons	**Ref. 725/102**
N. 1	Door unit	**Ref. 5150/500**

Domus Aura model

N. 1	Panels with 2 buttons	**Ref. 1110/2**
N. 1	Door unit	**Ref. 5150/500**

NOTE: *for correct installation of panels refer to "Door phone and Video door phone Product Technical Manual".*

WIRES

As indicated in Scheme SC101-0361G.
12 wires common to all the intercom door phones are necessary, 8 of which coming from the power supply Ref. 926/3 and 4 from the push button panel, power supply and relay.
Moreover from the push button panel two other wires, for calls, start; each of them is connected in parallel to the 8 intercoms of the correspondent group.

The electric lock will be released through the relay box Ref. 788/52.

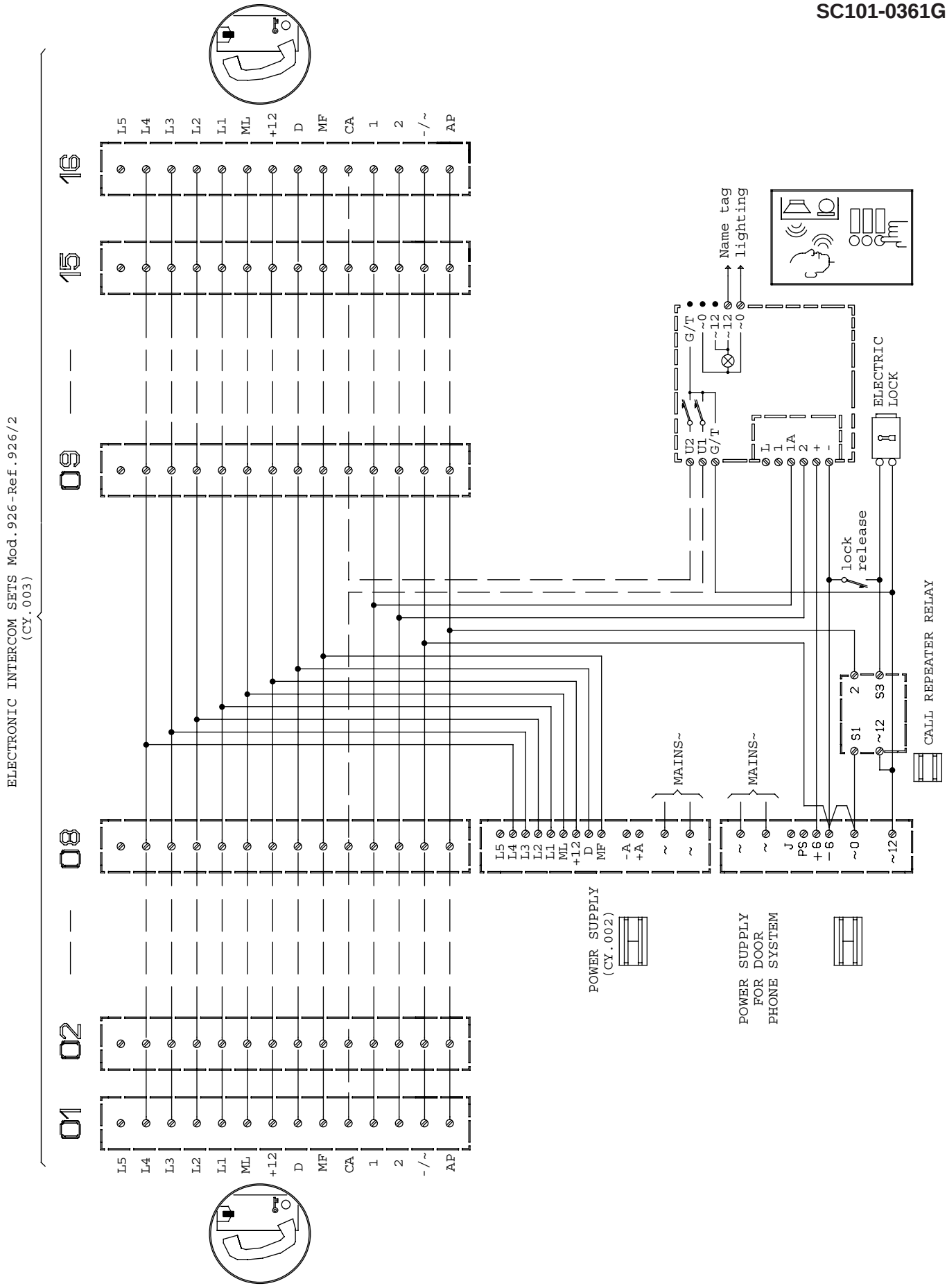
DIAGRAM NOTES

(see section 1)
CY.001
CY.002
CY.003
VX.008

INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES
With possibility to answer to 1 outdoor station The intercoms are divided in two groups of 8. The outdoor station is equipped with two keys: with one of them it calls in parallel the 8 intercoms of group I, with the second one those of group II

EASIVOICE

SC101-0361G



INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES

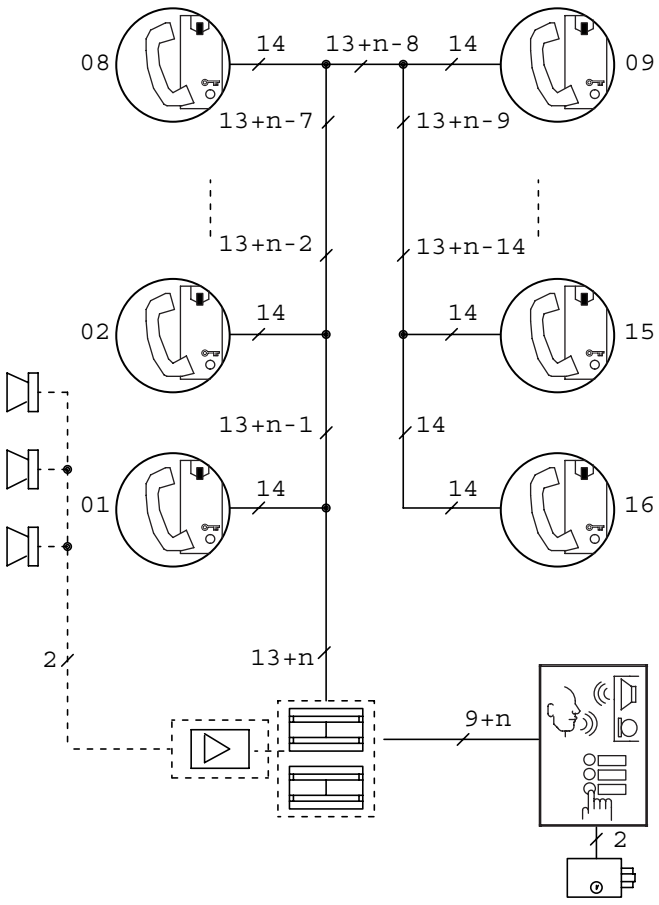
EASIVOICE With possibility to answer to 1 outdoor station. The intercoms are called separately from theoutdoor station. Possibility of paging service by means of loudspeakers

FEATURES

This system allows an intercom service up to 16 intercom door phones maximum and with possibility to answer to the calls coming from the outdoor station. It is possible to make 4 simultaneous conversations among the several intercoms plus one with the outdoor station.
The outdoor station calls the several intercoms separately.
The intercom door phones must all be programmed with two digits, i.e. from 01 to 09, from 10 to 19, from 20 to 25, or any other number between 01 and 97.

The GENERAL CALL must be connected only if necessary. It is recommended to place the amplifier as close as possible to the power supply and to connect them with a shielded cable.

Due to absorption problems, no more than 16 intercoms can be called in parallel. It is recommended that the power supply Ref. 926/3 be placed at the center of the installation to minimize the cross-talk effect.



EQUIPMENT

For said installation (Scheme SC101-0382F) the following:

N. 16	Intercom door phones		**Ref. 926/2**
N. 1	Power supply		**Ref. 926/3**
N. 1	Power supply for door phone system	28VA	**Ref. 786/11**
		28VA	**Ref. 786/1**
		28VA	**Ref. 786/14**
		38VA	**Ref. 786/38**
N. 1	Call repeater relay		**Ref. 788/21**
N. 1	Amplifier		
	Possible and not supplied by URMET DOMUS		
N. X	Loudspeakers		
	Possible and not supplied by URMET DOMUS		

OUTDOOR STATION REFERENCES

Mod. Sinthesi

N. 1	Module with door unit set-up	**Ref. 1145/20-/21-/22**
N. 1	Door unit	**Ref. 1145/500**
N. X	Button modules	**Ref. 1145/11-/12-/13-/14**

Mod. K-Steel

N. 1	Module with door unit	**Ref. 1155/20-/21-/22A**
N. X	Button modules	**Ref. 1155/11-/12A-/13A-/14A**

Mod. 725

N. 1	Panels with 2 buttons	**Ref. 725/102**
N. 1	Door unit	**Ref. 5150/500**

Domus Aura model

N. 1	Panels with 2 buttons	**Ref. 1110/2**
N. 1	Door unit	**Ref. 5150/500**

NOTE: *for correct installation of panels refer to "Door phone and Video door phone Product Technical Manual".*

WIRES

As indicated in Scheme SC101-0382F.
13 wires common to all the intercom door phones are necessary, 9 of which coming from the power supply Ref. 926/3 and 4 from the push button panel, power supply and relay.
Moreover from the push button panel all single call wires start towards each intercom.
In case the amplifier is not used for the GENERAL CALL, do not connect the wire L5 among the several intercoms. The common wires are reduced to 12.

The electric lock will be released through the relay box Ref. 788/52.

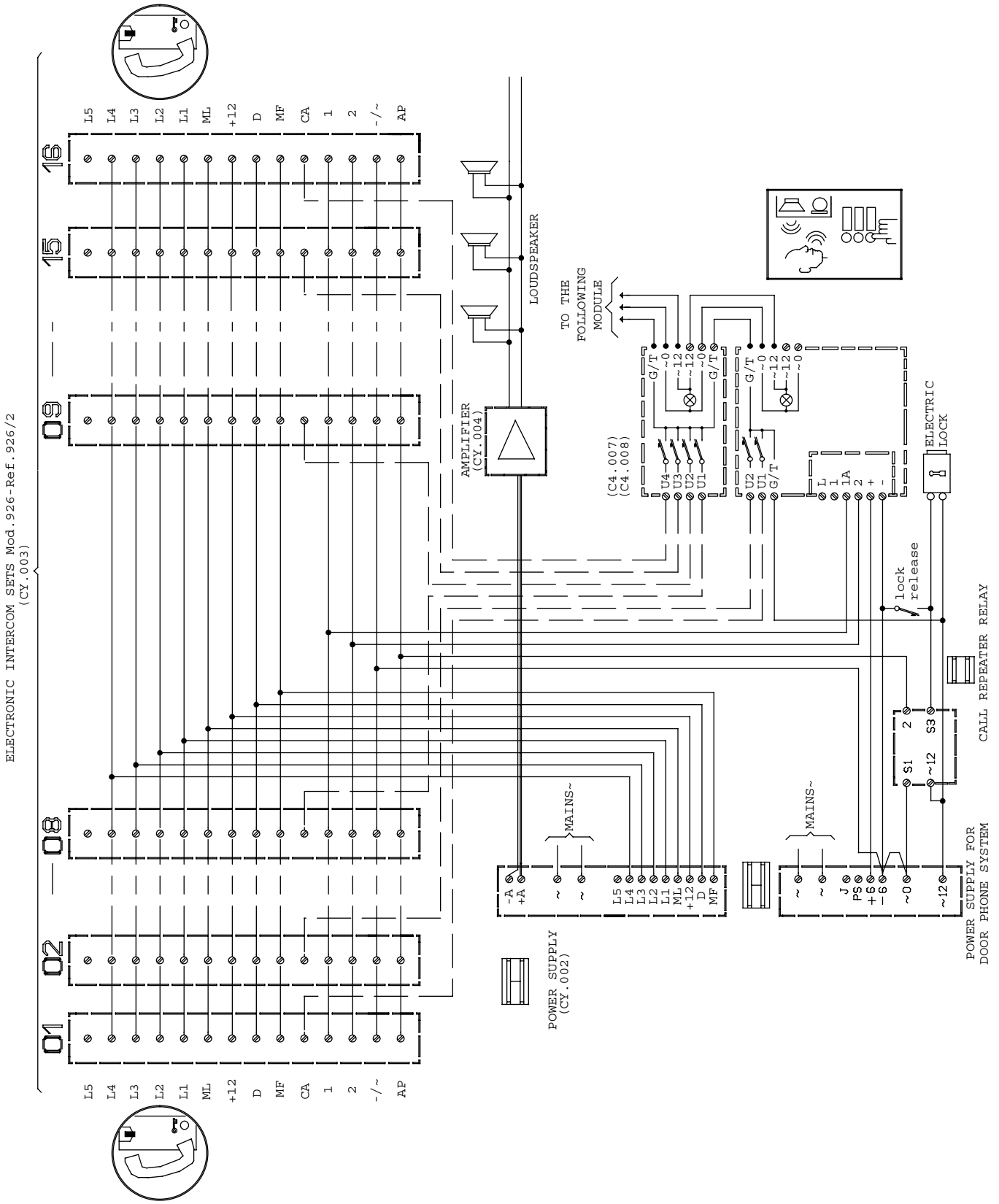
DIAGRAM NOTES

(see section 1)
CY.001
CY.002
CY.003
CY.004
VX.008

urmet DOMUS

INTERCOM CONNECTION OF MAXIMUM 16 INTERCOM DOOR PHONES
With possibility to answer to 1 outdoor station. The intercoms are called separately EASIVOICE from theoutdoor station. Possibility of paging service by means of loudspeakers

SC101-0382F



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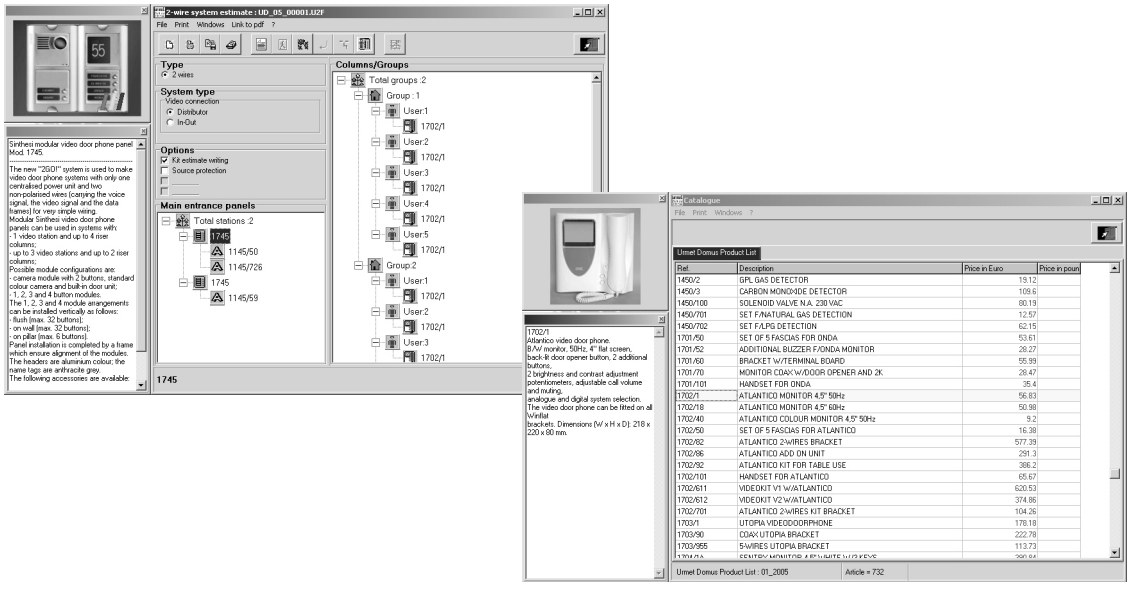

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OPERATIVE UNITS

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PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

EA: 19

Progettazione, sviluppo e produzione di sistemi
di citofonia, videocitofonia, sicurezza e telefonia

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Refer to quality manual for details of applications to ISO 9001:2000 requirements

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PRIMA EMISSIONE	EMISSIONE CORRENTE
FIRST ISSUE	*CURRENT ISSUE*
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La validità del presente certificato è subordinata a sorveglianza annuale e al riesame completo del Sistema di Qualità con periodicità triennale secondo le procedure dell'IMQ

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